

AD-A007 969

SUMMARY OF SYNOPTIC METEOROLOGICAL
OBSERVATIONS. INDONESIAN COASTAL
MARINE AREAS. VOLUME 2. AREA 8 - WEST
BORNEO, AREA 9 - KARIMATA STRAIT, AREA 10 -
SOUTHWEST JAVA SEA, AREA 11 - SOUTH
CENTRAL JAVA, AREA 12 - SOUTHEAST JAVA,
AREA 13 - SOUTHEAST JAVA SEA, AREA 14 -
NORTHEAST JAVA SEA

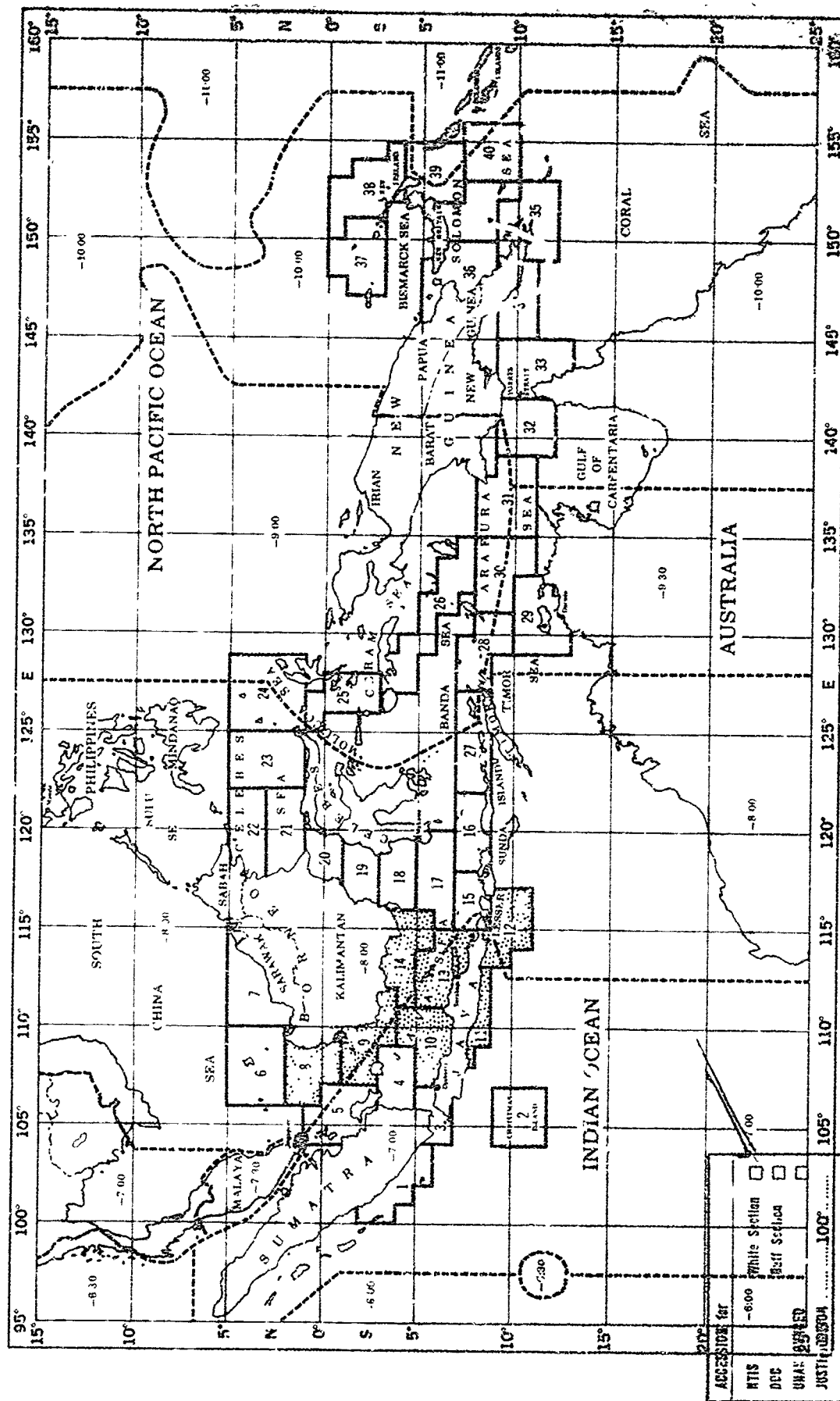
Naval Weather Service Command
Washington, D. C.

April 1975

DISTRIBUTED BY:

NTIS

National Technical Information Service
U. S. DEPARTMENT OF COMMERCE



INDONESIAN COASTAL MARINE SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

A list of the area names and their central locations appears on the inside back cover

ACCESSION for	White Section	<input type="checkbox"/>
RTIS	Black Section	<input type="checkbox"/>
DCC	Buff Section	<input type="checkbox"/>
UNAN: 3946		
JUSTIFIED		
BY	DISTRIBUTION/AVAILABILITY CODES	
DIAL	A	
	A	

HD 4007969

U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS INDONESIAN COASTAL MARINE AREAS

VOLUME 2

AREA 8 - WEST BORNEO

AREA 9 - KARIMATA STRAIT

AREA 10 - SOUTHWEST JAVA SEA

AREA 11 - SOUTH CENTRAL JAVA

AREA 12 - SOUTHEAST JAVA

AREA 13 - SOUTHEAST JAVA SEA

AREA 14 - NORTHEAST JAVA SEA



Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
US Department of Commerce
Springfield, VA. 22151

Prepared under the direction of the U.S. Naval Weather Service Command
by the National Climatic Center, Federal Building, Asheville, N.C. 28801.

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH - low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okta) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

CONTENTS

AREA	NAME	PAGES
8	West Borneo	1-79
9	Karimata Strait	80-158
10	Southwest Java Sea	159-237
11	South Central Java	238-316
12	Southeast Java	317-395
13	Southeast Java Sea	396-474
14	Northeast Java Sea	475-553

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22151.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts". These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.



Fig 1 The 8 point direction system

Fig 2 The 16 point direction system superimposed on the 8 point system

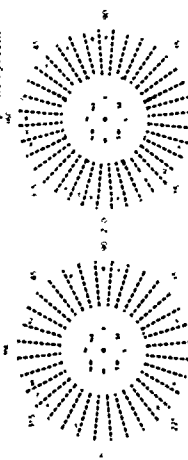


Fig 3 The 32 point direction system superimposed on the 8 point system

Fig 4 The 16 point direction system superimposed on the 8 point system

VISIBILITY (VV)		PRESENT WEATHER (1960 WHO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59	FOG (WITHOUT PRECIPITATION)
94	1/2≤VV<1	60-65	FOG (WITHOUT PRECIPITATION) PAST HOUR
95	1≤VV<2	91-94	RAIN
96	2≤VV<5	(68-69, 95, 97 IF TEMP > 10° F)	RAIN SHOWERS
97	5≤VV<10	80-82, (83-84 IF TEMP > 10° F)	DRIZZLE
98	10≤VV<25	50-55, 58-59	FREEZING PRECIPITATION
99	VV≥25	70-75, 85-86	SNOW
		(68-69, 83-84, 95, 97 IF TEMP ≤ 10° F)	OTHER FROZEN PRECIPITATION
		76-79	PRECIPITATION AT OB TIME
		87-90	PRECIPITATION AT OB TIME
		93-94	PRECIPITATION AT OB TIME
		96, 99	PRECIPITATION AT OB TIME
		13, 17	THUNDER
		19, 29	THUNDER
		93-99	THUNDERSTORM

NOTE

The following WHO codes were counted in two weather categories: 58-59 (rain and drizzle), 68-69 (rain and snow), 93-94 (rain and hail), 96 and 99 (hail and thunder lightning thunderstorm), 95 and 97 (snow and thunder lightning thunderstorm), or (rain and thunder lightning thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25		
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75		
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25		
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75		49-60
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25		
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75		
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25		
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75		
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		38	>18.75 to 19.25		
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	39	>19.25 to 19.75		61-70
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		40	>19.75 to 20.25		
11	>5.25 to 5.75}		23	>11.25 to 11.75}		41	>20.25 to 20.75		
			24	>11.75 to 12.25}		42	>20.75 to 21.25		
			25	>12.25 to 12.75}		43	>21.25 to 21.75		71-86
			26	>12.75 to 13.25}		44	>21.75 to 22.25		
			27	>13.25 to 13.75}	41-48	45	>22.25 to 22.75		
			28	>13.75 to 14.25}		46	>22.75 to 23.25		
			29	>14.25 to 14.75}		47	>23.25 to 23.75		
						48	>23.75 to 24.25		
						49	>24.25 to 24.75		
						50	>24.75 to 25.25		
						51	>25.25 to 25.75		
						52	>25.75 to 26.25		
						53-99	>26.25 to 49.75}		≥87
						Indeterminate-INDET			

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0008 WEST BORNED
.7N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	FRZL PCPN	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT LB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	4.2	4.9	.5	.0	.0	.0	.0	7.5	3.6	.0	.0	.0	.0	.0	.0	88.4
NE	6.1	.3	2.8	.0	.0	.0	.0	9.2	1.2	2.1	.0	.0	.0	.0	.0	87.5
E	14.6	.0	.0	.0	.0	.0	.0	14.6	8.3	.0	.0	.0	.0	.0	.0	77.1
SE	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
S	11.8	8.8	.0	.0	.0	.0	.0	20.6	.0	.0	.0	.0	.0	.0	.0	79.4
SW	22.2	5.6	.0	.0	.0	.0	.0	27.8	22.2	.0	.0	.0	.0	.0	.0	50.0
W	11.4	11.4	.0	.0	.0	.0	.0	22.9	.0	.0	.0	.0	.0	.0	.0	77.1
NW	3.4	6.9	.0	.0	.0	.0	.0	10.3	5.2	.0	.0	.0	.0	.0	.0	84.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	80.0
TOT PCT	5.7	2.6	1.2	.0	.0	.0	.0	9.5	3.1	1.0	.0	.0	.0	.0	.0	86.5
TOT OBS	421															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	FRZL PCPN	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	6.3	3.9	.8	.0	.0	.0	.0	10.9	1.6	.8	.0	.0	.0	.0	.0	86.7
0600	3.1	3.1	1.0	.0	.0	.0	.0	7.3	4.2	.0	.0	.0	.0	.0	.0	88.5
1200	3.1	1.0	.0	.0	.0	.0	.0	6.1	3.1	1.0	.0	.0	.0	.0	.0	89.8
1800	8.4	1.9	2.8	.0	.0	.0	.0	13.1	5.7	1.9	.0	.0	.0	.0	.0	81.3
TOT PCT	5.8	2.6	1.2	.0	.0	.0	.0	9.6	3.0	.9	.0	.0	.0	.0	.0	86.5
TOT OBS	429															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	06	06	09	12	15	18	21
N	1.0	21.7	14.0	1.0	.0	.0		39.7	10.5	37.1	44.5	38.5	39.7	38.8	52.9	36.6	41.4	
NE	1.0	14.3	14.7	.8	.0	.0		27.5	10.2	26.8	45.3	22.5	31.8	22.5	44.1	25.0	24.5	
E	.4	3.3	.6	.0	.0	.0		4.3	7.6	4.1	1.7	7.1	2.0	1.6	1.0	4.3	7.7	
SE	.1	.4	.2	.0	.0	.0		.8	7.4	1.8	.0	1.4	.0	.0	.0	.0	1.5	
S	.3	1.2	.3	.0	.0	.0		1.8	7.6	2.4	.0	1.7	1.7	2.8	.0	2.9	.9	
SW	.7	1.7	.3	.0	.0	.0		2.2	7.5	2.7	3.4	2.5	2.7	2.8	.0	1.8	.9	
W	.1	2.7	.4	.1	.0	.0		3.3	7.7	3.3	.0	2.8	4.1	5.7	.0	5.3	1.5	
NW	1.6	12.2	3.2	.0	.0	.0		17.0	8.1	18.6	5.1	20.3	15.4	22.9	2.0	19.0	15.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4							3.4	.0	3.0	.0	3.3	2.7	2.8	.0	5.1	6.1	
TOT OBS	93	604	332	20	0	0	1049		9.3	169	39	180	148	141	51	138	103	
TOT PCT	8.9	57.6	31.6	1.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	9.5	24.3	6.0	.0	.0		39.7	10.5	39.0	39.0	42.6	39.2
NE	7.3	17.0	3.1	.1	.0		27.5	10.2	31.6	28.7	28.3	24.8
E	2.1	2.0	.2	.0	.0		4.3	7.6	3.5	4.8	1.4	6.1
SE	.3	.4	.0	.0	.0		.8	7.4	1.3	.8	.0	.8
S	.7	1.1	.0	.0	.0		1.8	7.6	1.8	1.7	2.1	1.8
SW	1.0	1.1	.1	.0	.0		2.2	7.5	2.9	2.6	2.1	1.3
W	1.7	1.5	.1	.0	.0		3.3	7.7	2.6	3.4	4.2	3.2
NW	7.2	8.9	.9	.0	.0		17.0	8.1	13.1	16.1	17.3	17.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	2.2	3.0	2.1	5.6
TOT OBS	348	591	108	2	0	1049		9.3	228	328	192	301
TOT PCT	33.2	56.3	10.3	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0008 WEST BORNED
.7N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000	2.2	0.6	52.6	36.8	1.8	.0	.0	9.7	100.0	228	
0600	3.0	5.2	56.1	32.9	2.7	.0	.0	9.6	100.0	320	
1200	2.1	6.3	59.9	30.2	1.6	.0	.0	9.1	100.0	192	
1800	5.6	4.3	51.5	27.2	1.3	.0	.0	8.7	100.0	301	
TOT	96	97	564	332	20	0	0	9.3		1049	
PCT	3.4	3.4	57.6	31.6	1.9	.0	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	3.1	7.1	16.8	12.4	6.0	6.0
NE	2.4	6.7	11.4	11.1	6.0	6.0
E	.0	.0	3.1	.0	6.4	6.4
SE	.0	.0	.0	.0	.0	.0
S	.4	.4	1.6	1.6	6.3	6.3
SW	.1	.1	.1	.7	6.3	6.3
W	.6	.0	1.3	1.7	6.2	6.2
NW	1.3	2.1	6.7	4.5	5.8	5.8
VAR	.0	.0	.0	.0	.0	.0
CALM	.6	.0	1.7	.0	5.2	5.2
TOT OBS	15	29	75	57	176	6.0
TOT PCT	8.5	15.5	42.6	32.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.0	.0	.0	3.3	6.4	9.3	2.1	.0	.0	.0	23.9
NE	.0	.0	.0	2.0	8.8	1.6	1.8	.0	.0	.0	13.6
E	.0	.0	.0	.6	1.5	.0	.6	.0	.0	.0	4.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	1.6	.6	.0	.0	.0	.0	.0	1.8
SW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	4.4
W	.0	.0	.0	.0	1.1	.6	.0	.0	.0	.0	1.8
NW	.0	.0	.0	2.1	2.0	.9	.0	.0	.0	.0	8.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.7
TOT OBS	1	0	3	19	38	11	8	0	2	0	96
TOT PCT	.6	.0	1.7	10.8	20.5	6.3	4.5	.0	1.1	.0	54.5

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3500	9.6	5.5	5.5	5.5	5.5	5.5	5.5	9.6
>2000	7.7	11.5	12.1	12.1	12.1	12.1	12.1	12.1
>1000	18.7	28.6	31.9	31.9	31.9	31.9	31.9	31.9
>600	24.2	36.8	41.8	42.3	42.3	42.3	42.3	42.3
>400	25.3	37.9	42.9	44.0	44.0	44.0	44.0	44.0
>150	25.3	37.9	42.9	44.0	44.0	44.0	44.0	44.0
>0	25.3	37.9	43.4	44.5	44.5	44.5	44.5	44.5
TOTAL	96	60	79	81	81	81	81	81

TOTAL NUMBER OF OBS: 182

PCT FREQ NM <5/8: 55.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	UBSCD	TOTAL OBS
2.1	7.8	18.7	12.4	13.5	10.4	9.3	6.7	17.6	.5	193

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0008 WEST BORNEO
.7N 107.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.6	.1	.0	.0	.2	.1	.0	.0	.0	.0	1.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.1	.0	.0	.2	.1	.0	.0	.0	.0	1.0	.0
2<5	PCP	.0	1.0	.2	.0	.0	.0	.0	.7	.0	.0	1.9	.0
	NO PCP	1.9	1.2	.2	.0	.0	.0	.3	.0	.0	.0	3.3	.0
	TOT %	1.9	2.2	.5	.0	.0	.0	1.0	.0	.0	.0	5.2	.0
5<10	PCP	1.4	1.2	.7	.7	.7	.7	.2	.2	.0	.0	4.0	.0
	NO PCP	10.1	8.2	.2	.0	.0	.0	1.2	1.2	.0	.0	20.0	.0
	TOT %	11.5	9.4	.4	.2	.2	.7	.5	1.4	.0	.0	24.0	.0
10+	PCP	1.4	.9	.0	.0	.0	.9	.2	.1	.0	.0	2.6	.0
	NO PCP	30.7	21.8	2.0	.2	1.6	.8	1.4	7.8	.0	1.2	67.2	.0
	TOT %	32.1	22.4	2.0	.2	1.6	.8	1.6	7.9	.0	1.2	69.8	.0
TOT OBS		45.8	34.2	2.9	.5	2.0	1.1	2.1	10.3	.0	1.2	100.0	421
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0
	4-10	.4	.1	.0	.0	.1	.0	.0	.0	.0	.0	.7	.0
	11-21	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.1	.0	.0	.1	.2	.0	.0	.0	.1	1.1	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.0	1.2	.3	.0	.0	.0	.1	.4	.0	.0	3.1	.0
	11-21	1.1	1.2	.0	.0	.0	.0	.0	.4	.0	.0	2.7	.0
	22+	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	.0
	TOT %	2.2	2.5	.3	.0	.0	.0	.2	.8	.0	.0	6.0	.0
5<10	0-3	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	3.8	2.4	.3	.1	.1	.2	.4	1.8	.0	.0	6.3	.0
	11-21	4.5	3.5	.1	.0	.1	.0	.0	.5	.0	.0	8.7	.0
	22+	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0
	TOT %	8.8	6.4	.5	.2	.2	.2	.4	2.3	.0	.0	19.1	.0
10+	0-3	1.0	1.1	.1	.0	.2	.2	.0	1.5	.0	2.5	6.6	.0
	4-10	19.4	11.8	1.2	.0	.9	.8	1.2	9.6	.0	.0	44.9	.0
	11-21	11.2	7.9	.3	.1	.1	.0	.3	1.9	.0	.0	21.9	.0
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
	TOT %	31.6	21.1	1.6	.1	1.2	1.0	1.5	12.9	.0	2.5	73.6	.0
TOT OBS		43.1	30.3	2.3	.4	1.6	1.4	2.1	16.1	.0	2.7	100.0	713
TOT PCT													

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1959-1973AREA OCCUR WEST BORNEO
.74 107.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	3.2	11.1	20.6	6.3	6.3	.0	3.2	.0	50.8	49.2	63
06009	.0	.0	2.4	14.3	16.7	9.5	7.1	.0	.0	.0	50.0	50.0	42
12015	2.5	.0	.0	7.5	20.0	7.5	.0	.0	.0	.0	37.5	62.5	40
18021	.0	.0	.0	7.0	18.6	7.3	2.3	.0	.0	.0	30.2	69.8	43
TOT	1	0	3	19	36	12	8	0	2	0	81	107	188
PCT	.5	.0	1.6	10.1	19.1	6.4	4.3	.0	1.1	.0	43.1	56.7	100.0

TABLE 11

PERCENT FREQUENCY /SBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.0	1.7	2.8	20.2	74.7	178
06009	.0	.0	1.0	5.7	15.6	77.6	192
12015	.0	.0	.0	8.0	20.7	71.3	150
18021	.0	.0	1.5	7.4	20.2	70.9	203
TOT	1	0	3	43	138	393	723
PCT	.1	.0	1.1	5.9	19.1	73.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/UM
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.2	15.9	34.9	49.2	63
06009	.0	2.5	25.0	32.5	62.5	40
12015	2.7	2.7	16.2	27.0	56.8	37
18021	.0	.0	16.7	16.7	66.7	42
TOT	1	4	33	52	97	182
PCT	.5	2.2	16.1	28.6	53.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85-89	.0	.0	.0	.0	.0	3.5	1.4	.0	7	4.9
80-84	.0	.0	.0	.0	2.1	20.3	34.3	4.9	48	41.5
75-79	.0	.0	.0	.0	.0	4.9	14.7	13.3	47	32.9
70-74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	0	3	41	72	27	143	100.0
PCT	.0	.0	.0	.0	2.1	28.7	50.3	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85-89	3.0	.5	.5	.0	.7	.0	.0	.2	.0	.0
80-84	23.1	15.9	.7	.0	2.8	1.4	1.0	13.8	.0	2.8
75-79	13.5	12.6	1.2	.0	.5	.2	1.4	2.8	.0	.7
70-74	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	40.2	29.0	2.4	.0	4.0	1.6	2.4	16.8	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	85	84	80	77	75	69	80.2	230
06009	94	90	86	81	77	73	73	81.4	327
12015	91	84	83	80	77	75	75	80.1	191
18021	84	89	82	80	78	74	72	79.5	302
TOT	94	87	84	80	77	75	69	80.4	1050

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.1	18.8	56.3	22.9	85	44
06009	.0	.0	3.4	48.3	37.9	10.2	70	24
12015	.0	.0	.0	28.6	57.1	14.3	84	35
18021	.0	.0	5.4	21.6	51.4	21.6	84	37
TOT	0	0	4	41	77	27	84	149

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0006 WEST BORNEN
.7N 107.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND TNP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	.6	4	.0	1.0
6	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.3	.5	.3	.0	4	.0	1.0
4	.0	.0	.5	1.5	.5	.0	9	.0	2.3
3	.0	.0	.0	1.5	.5	.3	7	.0	2.3
2	.0	.0	.8	8.3	1.0	.0	40	.0	10.1
1	.0	.0	.8	3.3	.0	.0	16	.0	4.0
0	.0	.0	14.6	18.7	.3	.0	131	.0	33.1
-1	.0	.3	4.0	4.8	.3	.0	37	.0	9.3
-2	.0	.5	11.4	7.1	.0	.0	75	.0	18.9
-3	.0	.3	2.3	1.8	.0	.0	17	.0	4.3
-4	.0	1.3	6.6	1.8	.0	.0	38	.0	9.6
-5	.0	.8	.8	.5	.0	.0	8	.0	2.0
-6	.3	.3	.3	.0	.0	.0	3	.0	.8
-7/-8	.0	.0	.8	.0	.0	.0	3	.0	.8
TOTAL	1	12	170	194	13	5	394	0	396
PCT	.3	3.3	42.9	49.0	3.3	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.3	1.9	.0	.0	.0	5.3	1.4	.0	.3	.0	.0	.0	1.7
1-2	.0	18.1	3.3	.0	.0	.0	21.4	1.1	10.8	5.8	.0	.0	.0	17.5
3-4	.0	5.6	6.7	.0	.0	.0	12.2	.0	1.1	2.8	.0	.0	.0	3.9
5-6	.0	1.7	.8	.0	.0	.0	2.5	.0	.3	.0	.0	.0	.0	.3
7	.0	1.1	.8	.0	.0	.0	1.9	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	29.7	13.4	.0	.0	.0	43.3	2.3	12.2	10.0	.0	.0	.0	24.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.1	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.9	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0008 WEST BORNHO
.7N 107.3E

TABLE 1A (CONT)

PERCENT FREQUENCY OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.6
3-4	.0	1.9	1.1	.0	.0	.0	3.1	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.6	1.1	.0	.0	.0	5.8	.0	1.9	.0	.0	.0	.0	1.9

MGY	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.1	.0	.0	.0	.0	1.1	2.2	1.1	.0	.0	.0	.0	3.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.1	.0	.0	.0	6.4
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	2.5	1.4	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.1	.0	.0	.0	2.2	2.2	8.1	5.6	.0	.0	.0	15.8 97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MFT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT CPS
<1	7.4	5.3	2.1	.0	.0	.0	14.9	
1-2	4.3	33.0	6.5	.0	.0	.0	43.7	
3-4	.0	12.5	14.9	.0	.0	.0	27.7	
5-6	.0	4.3	3.2	.0	.0	.0	7.4	
7	.0	1.1	1.1	.0	.0	.0	2.1	
8-9	.0	.0	2.1	.0	.0	.0	2.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.7	56.4	31.9	.0	.0	.0	100.0	94

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGT
<6	6.3	23.8	23.1	8.1	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	3
6-7	.0	1.9	8.6	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
8-9	.0	.0	1.9	.6	6.3	.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.0	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
TOTAL	18	43	51	20	20	4	2	0	0	0	0	0	0	0	0	0	0	0	0	160	3
PCT	11.3	28.1	31.9	12.5	12.5	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1956-1973AREA 0008 WEST BOMED
.7N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WMO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	.6	.6	.0	.0	.0	.0	3.3	.6	1.6	.3	.0	1.0	1.2	92.0
NE	3.4	1.1	1.9	.0	.0	.0	.0	6.5	.0	1.1	.3	.0	.0	.0	92.7
E	22.7	.0	3.0	.0	.0	.0	.0	25.8	6.1	.0	.0	.0	.0	.0	68.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	71.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	97.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	75.0
TOT PCT	3.2	.7	1.2	.0	.0	.0	.0	5.1	.7	1.6	.2	.0	.5	.5	91.7
TOT OBS:	432														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.3	.0	.0	.0	.0	.0	.0	3.3	.8	.0	.0	.0	.8	.8	94.3
06009	5.6	.0	.9	.0	.0	.0	.0	6.5	.9	.0	.0	.0	.0	.0	92.5
12015	1.0	2.0	2.0	.0	.0	.0	.0	4.9	.0	2.9	.0	.0	1.0	.0	91.2
18021	3.7	.9	1.9	.0	.0	.0	.0	6.5	.9	3.7	.9	.0	.0	.9	87.9
TOT PCT TOT OBS:	3.4 438	.7	1.1	.0	.0	.0	.0	5.3	.7	1.6	.2	.0	.5	.5	91.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.7	22.9	11.2	.4	.0	.0		37.2	9.2		32.8	31.8	41.4	41.1	39.2	39.5	36.0	34.0
NE	2.6	22.4	9.8	.3	.0	.0		35.2	9.0		34.8	47.0	33.4	34.6	28.6	33.9	31.1	40.7
E	.4	4.1	.8	.0	.0	.0		5.4	7.2		7.0	11.0	6.5	4.9	4.3	1.3	3.7	4.1
SE	.3	1.5	.0	.0	.0	.0		1.9	5.9		2.2	4.2	1.9	2.0	.5	.0	2.1	1.9
S	.5	.5	.1	.0	.0	.0		1.1	4.5		.6	1.7	.6	1.6	.5	.0	1.8	1.5
SW	.5	.7	.2	.0	.0	.0		1.5	3.5		1.9	.0	.3	3.3	2.0	.0	2.5	.7
W	.5	1.4	.3	.0	.0	.0		2.2	6.7		3.0	.0	1.0	2.0	4.1	.0	2.5	2.2
NW	.8	8.1	2.2	.0	.0	.0		11.2	7.8		13.3	2.5	11.0	9.8	16.1	5.3	13.5	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		4.4	1.7	3.9	.8	4.6	.0	6.7	7.5
TOT OBS	129	622	256	8	0	0		1009	8.2		160	59	181	123	151	38	163	134
TOT PCT	12.8	61.6	24.8	.8	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	12.0	22.8	2.5	.0	.0		37.2	9.2	32.5	41.3	39.3	35.1
NE	11.5	21.7	2.1	.0	.0		35.2	9.0	38.1	33.9	33.7	35.4
E	3.0	2.2	.1	.0	.0		5.4	7.2	6.1	3.8	3.7	3.9
SE	1.2	.7	.0	.0	.0		1.9	5.9	2.7	2.0	.4	2.0
S	.9	.1	.0	.0	.0		1.1	4.5	.9	1.0	.4	1.7
SW	1.2	.3	.0	.0	.0		1.5	3.5	1.4	1.5	1.6	1.7
W	1.2	1.0	.0	.0	.0		2.2	6.7	2.2	1.4	3.3	2.4
NW	5.3	5.5	.3	.0	.0		11.2	7.8	10.4	10.5	13.9	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	3.7	2.6	1.7	7.1
TOT OBS	410	348	51	0	0		1009	8.2	219	304	189	297
TOT PCT	40.6	34.3	5.1	.0	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

AREA 0000 WEST BORNED
0.7N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	3.7	9.6	63.5	21.9	1.4	.0	.0	8.2	100.0	219
00009	2.6	6.3	67.8	27.6	.7	.0	.0	8.8	100.0	304
12015	3.7	7.4	62.4	25.9	.5	.0	.0	8.4	100.0	189
18021	7.1	10.4	58.6	23.2	.7	.0	.0	7.5	100.0	297
TOT	44	85	622	250	8	0	0	8.2		1009
PCT	4.4	8.4	61.6	24.8	.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL PCT	MEAN CLOUD COVER
N	7.1	3.9	24.5	4.2		5.5
NE	3.5	6.2	20.4	6.7		5.6
E	1.0	.0	.9	1.0		5.1
SE	.0	.5	.0	.0		3.0
S	.0	.0	.0	.0		.0
SW	.0	.0	.5	.0		7.0
W	.6	.4	.8	.9		5.9
NW	1.9	.9	5.3	1.7		5.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	1.0	1.0		5.5
TOT OBS	28	24	104	38	194	5.5
TOT PCT	14.4	12.4	53.6	19.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) AND OCCURRENCE OF NP <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NP <5/8	TOTAL
149	299	499	999	1999	3499	4999	6499	7999	8000+	ANY HGT	OBS
.0	.0	1.2	4.5	5.2	2.6	1.0	.0	.0	.0	29.3	
.0	.0	.3	3.6	4.8	3.0	2.6	.0	.0	.0	22.8	
.0	.0	.5	.0	.9	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
.0	.0	.0	.4	.5	.0	.0	.0	.0	.0	1.5	
.0	.0	.1	.3	1.0	1.7	.0	.0	.0	.0	7.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	2.1	
.0	1	4	18	24	13	7	0	0	0	127	194
.0	.5	2.1	9.3	12.4	6.7	3.6	.0	.0	.0	65.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) AND VISIB (NM)

CEILING (FEET)	VISIB (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
• NR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• NR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• NR >3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
• NR >2000	6.1	9.1	10.2	10.2	10.2	10.2	10.2	10.2
• NR >1000	17.8	21.3	22.8	22.8	22.8	22.8	22.8	22.8
• NR >600	24.4	30.5	32.0	32.0	32.0	32.0	32.0	32.0
• NR >300	25.9	32.5	34.0	34.0	34.0	34.0	34.0	34.0
• NR >150	26.4	33.0	34.5	34.5	34.5	34.5	34.5	34.5
• NR >0	26.4	33.0	34.5	34.5	34.5	34.5	34.5	34.5
TOTAL	52	65	68	68	68	68	68	68

TOTAL NUMBER OF OBS: 197

PCT FREQ NP <5/8: 65.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
								OBS	OBS
2.5	14.2	26.1	18.6	10.3	11.9	9.9	5.4	7.8	204

AREA DUCO WEST BORNED
.7N 107.4E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSEX (NM)	A	HE	E	SF	S	SW	N	NW	VAR	CALM	PCT	TOTAL OBS
1<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NW PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.7	.9	.0	.0	.0	.0	.0	.0	.0	.2	
	NW PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.7	.9	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	NW PCP	.7	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.9	.6	.0	.0	.0	.0	.0	.0	.0	1.2	
2<5	PCP	.8	.8	.0	.0	.0	.0	.0	.0	.0	.9	
	NW PCP	.9	.4	.0	.5	.2	.0	.2	.0	.0	1.6	
	TOT %	.9	1.3	.0	.5	.2	.0	.2	.0	.0	2.5	
5<10	PCP	.8	.4	.3	.0	.0	.0	.1	.0	.0	2.1	
	NW PCP	4.7	4.4	.6	.0	.1	.8	1.9	.0	.2	15.7	
	TOT %	7.9	6.3	.9	.0	.1	.8	2.0	.0	.2	17.8	
10+	PCP	.7	.5	.6	.0	.0	.0	.0	.0	.0	1.4	
	NW PCP	30.1	33.2	2.3	1.0	.2	1.3	6.2	.0	1.6	76.6	
	TOT %	30.9	33.7	2.9	1.0	.2	1.3	6.2	.0	1.6	78.0	
	TOT OBS											
	TOT PCT	38.9	42.1	3.8	1.5	.4	.8	2.1	8.4	.0	100.0	432

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSWR	SPD	N	VF	F	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
(N4)	KTS												
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	
1/2<1	0-3	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0	.4	
.4<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.1	.0	.0	.1	.1	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
	22+	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.5	.4	.0	.1	.0	.0	.2	.1	.0	.0	1.4	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.7	.8	.1	.4	.1	.1	.0	.0	.0	.0	2.3	
	11-21	.1	.4	.0	.0	.0	.1	.0	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	1.4	.1	.4	.1	.3	.0	.1	.0	.0	3.3	
5<10	0-3	.5	.1	.0	.0	.0	.0	.3	.0	.0	.4	1.3	
	4-10	3.4	4.2	.5	.3	.0	.0	.1	1.0	.0	.0	9.5	
	11-21	2.2	1.1	.4	.0	.0	.1	.1	.6	.0	.0	4.5	
	22+	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	6.2	5.6	.8	.3	.0	.1	.6	1.5	.0	.4	15.6	
10+	0-3	2.2	2.4	.3	.4	.3	.4	.1	.8	.0	7.8	4.6	
	4-10	20.2	20.3	2.8	.8	.3	.4	.7	6.3	.0	.0	51.8	
	11-21	8.3	7.6	.1	.0	.0	.1	.2	.7	.0	.0	17.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	30.8	30.2	3.3	1.1	.6	.8	1.3	7.8	.0	2.8	78.5	
TOT DBS													
TOT PCT		18.6	18.3	4.4	1.9	.7	1.3	1.4	9.6	.0	3.3	100.0	TOT

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

AREA 0008 WEST BORNED
.7N 107.4E

TABLE 10

PERCENT FREQUENCY OF LIFING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 4/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000 9999	TOTAL OBS	NH $\leq 4/8$ BY HOUR	TOTAL OBS
00003	.0	1.7	1.7	8.5	20.3	5.1	3.4	.0	.0	.0	40.7	59.3	59
06009	.0	.0	5.8	3.8	9.6	7.7	7.7	.0	.0	.0	34.6	65.4	52
12015	.0	.0	.0	17.5	15.0	2.5	.0	.0	.0	.0	35.0	64.0	40
18021	.0	.0	.0	7.7	9.8	9.6	1.9	.0	.0	.0	29.1	70.9	52
TOT PCT	0 .0	1 .5	4 2.0	18 6.9	25 12.7	13 6.4	7 3.4	0 .0	0 .0	0 .0	68 33.5	135 66.5	203 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	.6	1.7	1.2	11.0	59.7	172
06009	.5	.0	1.4	2.2	11.5	34.1	182
12015	.7	.0	1.3	4.0	20.0	74.0	150
18021	.8	1.0	1.0	5.3	20.1	72.2	209
TOT PCT	6 .9	3 .4	10 1.4	23 3.2	112 15.7	559 78.4	713 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ AND 3+	NH $\leq 4/8$ AND 5+	TOTAL OBS
00003	.0	3.5	12.3	29.6	57.9	57
06009	.0	5.9	11.8	23.5	64.7	51
12015	.0	.0	20.5	15.4	64.1	39
18021	.0	.0	10.0	14.0	76.0	50
TOT PCT	0 .0	5 2.5	26 13.2	42 21.3	129 65.5	197 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.6
85/89	.0	.0	.0	.6	.6	4.2	1.2	.0	11	6.6
80/84	.0	.0	.0	1.7	27.2	39.5	7.2	.0	117	70.1
75/79	.0	.0	.0	.0	2.4	11.4	9.0	.0	38	22.5
TOTAL	0	0	0	1	4	48	87	27	167	100.0
PCT	.0	.0	.0	.6	2.4	28.7	52.1	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.9	1.5	1.2	.0	.0	.0	.0	.0	.0	.0
28.6	24.9	1.0	.4	.0	.6	2.8	7.9	.0	3.6
10.5	7.8	2.1	.0	.0	.3	.3	1.8	.0	.0
43.6	34.1	4.3	.6	.0	.9	3.1	9.7	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	84	81	77	75	73	80.6	218
06009	91	90	86	82	78	75	75	81.9	301
12015	90	86	84	81	77	74	73	80.8	167
18021	84	83	82	80	76	73	72	79.7	296
TOT	92	89	85	81	77	75	72	80.8	1002

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	23.4	61.7	14.9	84	47
06009	.0	2.4	7.3	48.8	34.1	7.3	7.3	7.8	41	
12015	.0	.0	2.9	28.6	54.3	14.3	8.2	3.4	34	
18021	.0	.0	.0	18.3	57.1	20.3	8.5	4.9	49	
TOT	0	1	4	49	90	28	82	172		

FEBRUARY

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1854-1973AREA 0008 WEST BORNED
.7N 107.4E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	73 70	77 80	81 84	84 87	89 92	TOT	N FOG	NU FOG
14/16	.0	.0	.0	.0	.3	1	.0	.3
11/13	.0	.0	.0	.3	.0	1	.0	.3
9/10	.0	.0	.0	.3	.0	1	.0	.3
7/8	.0	.0	.0	.3	.5	3	.0	.5
6	.0	.0	.0	.5	.0	2	.0	.5
5	.0	.5	.5	.8	.3	8	.0	2.1
4	.0	.0	2.3	1.5	.0	15	.0	3.9
3	.0	.0	.6	1.0	.0	7	.0	1.8
2	.0	.5	7.5	1.0	.0	35	.0	9.0
1	.0	1.0	7.2	.8	.0	35	.0	9.0
0	1.5	9.3	23.1	.0	.0	132	.3	33.7
-1	.0	3.9	6.4	.0	.0	40	.0	10.3
-2	1.3	6.5	8.2	.0	.0	70	.0	18.0
-3	.3	3.1	1.3	.0	.0	18	.0	4.6
-4	.8	2.8	1.0	.0	.0	18	.0	4.6
-5	.3	.0	.3	.0	.0	2	.0	.5
-6	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	10	116	426	25	4	359	1	38.0
PCT	4.1	29.7	58.6	6.6	1.0	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.3	.0	.0	.0	.0	3.2	.0	3.4	.0	.0	.0	.0	3.4
1-2	1.7	12.8	4.4	.0	.0	.0	18.9	2.5	12.0	4.0	.0	.0	.0	18.5
3-4	.6	9.5	11.8	.6	.0	.0	22.5	.0	2.1	8.8	.0	.0	.0	10.9
5-6	.0	.0	3.4	.0	.0	.0	3.4	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	24.6	19.5	.6	.0	.0	47.9	2.5	17.4	16.2	.0	.0	.0	36.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1969-1973

FEBRUARY

AREA 0004 WEST BORNED
.7N 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	2.5	.8	.0	.0	.0	3.4	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.2	.0	.0	1.3	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.6	.0	.0	.0	1.9	.2	4.6	1.5	.2	.0	.0	6.5	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	7.4	.0	.0	.0	.0	13.2	.0
1-2	4.1	31.4	9.1	.0	.0	.0	44.6	.0
3-4	.8	12.4	21.5	.8	.0	.0	35.5	.0
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0
7	.0	.0	.8	.0	.0	.0	.8	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	10.7	51.2	37.2	.8	.0	.0	100.0	121

PERIOD: (OVER-ALL) 1969-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.7	28.0	20.2	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	2
6-7	.0	2.4	8.9	6.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
8-9	.0	.6	1.8	1.2	.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
10-11	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	4.2	3.0	2.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	2
TOTAL	20	59	56	23	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	188	3
PCT	11.9	35.1	33.3	13.7	4.2	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

MARCH

AREA 0008 WEST BORNEN
ON 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FUG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.4	.8	1.1	.0	.0	.0	.0	5.3	.0	.0	.9	.0	.0	.0	93.2
NE	2.3	1.0	.4	.0	.0	.0	.0	4.7	1.4	2.3	.4	.0	.0	.0	90.7
E	3.1	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	2.5	.0	94.5
SE	2.0	7.8	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0	.0	90.2
S	6.9	5.2	6.9	.0	.0	.0	.0	19.0	6.9	.0	.0	.0	.0	.0	74.1
SW	5.1	2.0	.0	.0	.0	.0	.0	7.7	10.3	.0	.0	.0	.0	.0	82.1
W	3.1	.0	.0	.0	.0	.0	.0	3.1	6.3	6.3	.0	.0	.0	.0	84.4
NW	2.1	.0	.0	.0	.0	.0	.0	2.1	.0	.5	.0	.0	.0	.0	95.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	88.5
TOT PCT TOT OBS:	2.8 428	1.2	.7	.0	.0	.0	.0	4.7	1.7	1.9	.5	.0	.2	.2	91.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0603	2.7	2.7	.9	.0	.0	.0	.0	6.3	.9	.0	.0	.0	.0	.0	92.8
0609	1.0	1.0	.8	.0	.0	.0	.0	4.0	5.2	.0	.0	.0	.0	.0	92.1
12015	3.8	.0	1.0	.0	.0	.0	.0	4.8	.0	1.0	1.0	.0	1.0	.0	92.4
14021	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	6.9	1.0	.0	.0	.0	88.1
TOT PCT TOT OBS:	2.9 443	1.1	.7	.0	.0	.0	.0	4.7	1.1	1.6	.5	.0	.2	.2	91.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTA UBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	4.7	20.7	4.4	.0	.0	.0		30.1	7.1		30.7	27.8	34.4	34.7	30.2	30.3	23.1	25.4
NE	3.3	17.1	4.0	.0	.0	.0		24.4	7.3		24.0	35.2	24.3	21.4	23.5	39.4	22.4	23.7
E	7.7	3.9	.8	.0	.0	.0		7.4	5.6		8.6	12.0	6.8	4.4	5.2	13.6	7.1	9.3
SE	1.5	1.7	.1	.0	.0	.0		3.4	4.2		3.0	.9	3.2	2.0	4.3	3.0	3.2	5.1
S	1.4	1.7	.2	.0	.0	.0		3.5	4.9		2.8	1.9	2.3	4.0	1.2	3.0	5.6	5.1
SW	.8	2.2	.1	.0	.0	.0		3.2	5.5		3.1	1.9	3.2	4.0	2.8	3.0	2.8	4.2
W	1.2	3.4	.3	.0	.0	.0		4.9	5.5		2.9	6.5	2.9	6.5	5.4	.0	7.4	6.4
NW	2.6	7.7	1.1	.1	.0	.0		11.4	6.5		17.7	8.3	8.5	11.7	15.6	4.5	12.3	11.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.6							11.8	.0		11.7	5.6	13.6	11.3	11.7	3.0	16.0	8.5
TOT OBS	315	404	117	2	0	0	1043	546			154	54	236	124	162	33	162	118
TOT PCT	30.7	34.4	11.7	.2	.0	.0	100.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTA UBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	16.0	13.3	.8	.0	.0		30.1	7.1	24.9	34.5	30.3	24.3	
NE	12.6	11.5	.4	.0	.0		24.4	7.3	26.9	23.3	20.2	22.9	
E	5.2	1.8	.3	.0	.0		7.4	5.6	9.5	8.0	6.7	8.0	
SE	3.0	.4	.0	.0	.0		3.4	4.2	2.9	2.8	4.1	4.0	
S	2.6	.9	.0	.0	.0		3.5	4.9	2.5	3.5	1.5	5.4	
SW	2.4	.6	.1	.0	.0		3.2	5.5	1.8	3.5	2.8	3.4	
W	3.7	1.2	.0	.0	.0		4.9	5.5	3.8	4.1	4.5	7.0	
NW	6.8	4.2	.4	.0	.0		11.4	6.5	11.5	9.6	13.7	12.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	11.8						11.8	.0	10.1	12.8	10.3	12.9	
TOT OBS	647	355	21	0	0	1043	546		208	380	195	280	
TOT PCT	44.0	34.0	2.0	.0	.0	100.0	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

MARCH

AREA 0008 WEST BORNEN
ON 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-31	34-47	48+			
0000	10.1	19.2	60.6	10.1	.0	.0	.0	5.7	100.0	209
0600	12.8	16.9	56.9	13.1	.0	.0	.0	6.1	100.0	380
1200	10.3	14.4	61.0	14.4	.0	.0	.0	6.3	100.0	195
1800	12.9	22.3	56.8	7.5	.4	.0	.0	5.2	100.0	280
TOT	123	192	609	117	2	0	0	5.8		1063
PCT	11.8	18.4	58.4	11.2	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.7	9.1	13.5	5.0		5.1
NE	4.7	7.6	11.8	3.9		4.8
E	1.0	3.1	3.8	1.7		5.0
SE	.5	1.0	1.3	1.2		5.3
S	.4	.8	2.0	1.0		5.5
SW	.0	.0	1.7	.5		6.7
W	.7	.8	2.4	.8		4.9
NW	.5	1.7	6.9	1.9		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	1.9	1.9		5.1
TOT OBS	30	66	119	47	262	5.1
TOT PCT	11.5	25.2	45.4	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
.3	.0	.0	1.3	4.9	.4	.5	.0	.3	.4	22.0	
.0	.0	.0	1.1	3.2	.6	.8	.8	.0	1.5	20.0	
.0	.0	.0	.4	1.4	.0	.4	.0	.0	.0	7.3	
.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	3.1	
.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
.0	.0	.0	.0	1.1	.2	.4	.0	.0	.0	2.9	
.1	.0	.0	.0	2.3	.4	.7	.4	.1	.0	7.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	5.3	
1	.0	.0	1.0	3.8	.4	.7	.3	1	5	192	262
.4	.0	.0	3.3	14.3	1.4	2.7	1.1	.4	1.9	73.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>OR >5000	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>OR >3500	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>OR >2000	7.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7
>OR >1000	18.8	20.3	21.0	21.8	24.1	22.1	22.1	22.1
>OR >600	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
>OR >300	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
>OR >150	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
>OR >0	21.4	23.2	24.7	25.5	25.8	25.8	25.8	25.8
TOTAL	58	63	67	69	70	70	71	71

TOTAL NUMBER OF OBS: 271

PCT FREQ NM <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
4.2	15.1	25.3	18.2	10.9	11.2	6.3	4.6	3.9	OBS
									285

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

MARCH

AREA 0008 WEST BORNED
.04 107.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
1/2<1	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.5	
2<5	PCP	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.4	.7	.1	.1	.0	.0	.1	.0	.0	.0	1.4	
	TOT %	1.2	1.3	.1	.1	.0	.0	.1	.0	.0	.0	2.8	
5<10	PCP	.6	.2	.1	.0	.2	.1	.0	.2	.0	.0	1.4	
	NO PCP	1.9	3.9	.9	.0	.5	.0	.2	2.2	.0	1.2	10.8	
	TOT %	2.5	4.2	1.0	.0	.6	.1	.2	2.5	.0	1.2	12.2	
10+	PCP	.0	.2	.2	.3	.2	.1	.1	.0	.0	.0	1.2	
	NO PCP	27.0	24.2	7.8	2.3	2.3	2.1	3.4	8.7	.0	4.9	82.7	
	TOT %	27.0	24.4	8.0	2.6	2.5	2.2	3.5	8.7	.0	4.9	83.8	
TOT OBS													
TOT PCT		31.0	30.1	9.3	2.8	3.4	2.4	3.7	11.3	.0	6.1	100.0	427

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	WIND KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.9	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.6	.7	.1	.1	.0	.0	.0	.1	.0	.0	1.6	
	11-21	.4	.1	.0	.0	.0	.0	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.1	.9	.1	.1	.0	.0	.0	.1	.0	.0	2.3	
5<10	0-3	.0	.0	.1	.0	.1	.0	.0	.4	.0	.9	1.6	
	4-10	1.4	1.8	.4	.0	.3	.0	.1	1.7	.0	.0	5.6	
	11-21	.9	1.2	.1	.0	.0	.0	.0	.0	.0	.0	2.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.3	3.1	.6	.0	.4	.0	.1	2.1	.0	.9	9.5	
10+	0-3	3.2	2.8	1.7	.6	.6	.6	1.6	1.5	.0	7.5	20.4	
	4-10	20.5	17.3	3.7	1.3	1.8	1.5	2.9	6.3	.0	.0	55.1	
	11-21	4.3	3.8	.8	.2	.1	.0	.4	1.3	.0	.0	10.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	28.0	23.9	6.2	2.2	2.5	2.1	5.0	9.2	.0	7.5	86.6	
TOT OBS													
TOT PCT		31.8	28.3	7.0	2.3	2.8	2.6	5.3	11.6	.0	8.3	100.0	695

MARCH

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

AREA 0008 WEST BORNHO
.6N 107.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	1.5	15.4	3.1	.0	3.1	1.5	.0	24.6	75.4	65
06009	.0	.0	.0	1.3	15.4	1.3	6.4	.0	.0	3.8	28.2	71.8	78
12015	.0	.0	.0	11.6	5.8	2.9	.0	.0	.0	1.4	21.7	78.3	69
18021	1.4	.0	.0	.0	18.8	.0	2.9	1.4	.0	1.4	26.1	73.9	69
TOT	1	0	0	10	39	5	7	3	1	5	71	210	281
PCT	.4	.0	.0	3.6	13.9	1.8	2.5	1.1	.4	1.8	25.3	74.7	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.2	.0	.4	2.4	8.5	87.2	164
06009	.5	.0	.5	.5	8.5	90.0	211
12015	.0	.7	2.7	4.8	10.9	81.0	147
18021	.5	.0	.5	3.2	11.0	84.1	189
TOT	4	1	7	18	70	611	711
PCT	.4	.1	1.0	2.5	9.8	85.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.1	21.9	75.0	64
06009	.0	.0	2.6	26.3	71.1	76
12015	.0	1.5	13.4	9.0	77.6	67
18021	1.0	1.0	4.7	23.4	71.9	64
TOT	1	2	16	55	200	271
PCT	.4	.7	5.9	20.3	73.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.5	.0	.0	.0	.0	1	.5
85/89	.0	.0	.0	.0	.5	5.0	1.5	.5	15	7.5
80/84	.0	.0	.0	.0	1.0	30.8	43.3	7.0	165	82.1
75/79	.0	.0	.0	.0	.5	5.5	3.5	.0	20	10.0
TOTAL	0	0	0	1	4	73	101	22	201	100.0
PCT	.0	.0	.0	.5	2.0	36.3	50.2	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.4	.0	.0	.0	.0	.0	.0	.0
4.1	1.0	.2	.2	1.0	.2	.0	.1	.0	.5
23.5	21.5	6.0	3.4	3.5	1.6	4.9	10.8	.0	7.0
3.0	1.6	3.1	.7	.0	.0	.0	.5	.0	1.0
30.6	24.3	9.7	4.4	4.5	1.9	4.9	11.4	.0	8.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	89	86	81	78	77	77	81.6	205
06009	94	91	88	83	79	77	75	83.2	361
12015	89	86	85	82	78	75	74	81.7	199
18021	88	85	83	81	78	76	75	80.9	281
TOT	94	89	87	82	78	75	74	82.0	1046

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL Obs
00003	.0	.0	.0	22.9	56.3	20.8	84	48
06009	.0	1.8	5.5	58.2	25.5	9.1	79	35
12015	.0	.0	.0	27.5	64.7	7.8	82	51
18021	.0	.0	1.9	37.7	54.7	5.7	82	55
TOT	0	1	4	77	103	22	82	207

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

MARCH

AREA 0008 WEST BORNED
.CN 107.3E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	84 88	89 92	TOT	WU FOG
11/13	.0	.0	.0	.0	.3	1	.3
6	.0	.0	.0	.0	.3	1	.3
5	.0	.0	.3	1.0	.0	5	1.3
4	.0	.3	1.0	2.0	.3	14	3.5
3	.0	.0	1.0	2.0	.0	12	3.0
2	.0	.3	5.6	2.0	.0	31	7.8
1	.0	.3	5.6	2.0	.0	32	8.1
0	.0	2.5	18.0	.3	.0	82	20.8
-1	.0	3.3	13.2	.3	.0	66	16.7
-2	.5	5.6	16.5	.0	.0	19	22.9
-3	.0	1.0	4.3	.0	.0	21	5.3
-4	.3	2.8	3.5	.0	.0	26	6.3
-5	.5	1.5	.3	.0	.0	9	2.3
-6	.0	.5	.5	.0	.0	4	1.0
-7/-8	.0	.3	.3	.0	.0	2	.3
TOTAL	5		276		3	395	399
PCT	1.3	18.2	69.9	9.9	.8	100.0	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.9	.0	.0	.0	.0	3.6	.2	.9	.0	.0	.0	.0	1.1
1-2	.0	11.4	3.2	.0	.0	.0	14.5	.0	13.0	2.5	.0	.0	.0	16.4
3-4	.0	.9	6.8	.0	.0	.0	15.7	.0	3.4	3.4	.0	.0	.0	7.3
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.9	.9	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	22.0	13.4	.0	.0	.0	37.3	1.1	17.3	6.6	.0	.0	.0	25.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	3.6	.7	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.3	1.4	.0	.0	.0	6.4	.0	1.1	.0	.0	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

MARCH
TABLE 18 (CONT.)

AREA 0008 WEST BORNED
ON 107.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.4	.0	.0	.0	.0	4.3	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.4	.9	.0	.0	.0	5.2	.0	1.1	.0	.0	.0	.0	1.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT-L PCT
<1	.9	.7	.0	.0	.0	.0	1.6	.0	3.0	.0	.0	.0	.0	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.0	.9	1.1	2.7	.0	.0	.0	.0	4.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.7	.0	.0	.0	.0	1.6	.0	5.3	4.1	.9	.0	.0	11.4	89.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.7	7.0	.9	.0	.0	.0	24.6	
1-2	3.5	32.5	8.8	.0	.0	.0	44.7	
3-4	.0	13.2	13.2	.0	.0	.0	26.3	
5-6	.0	.0	1.8	.9	.0	.0	2.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.9	.9	.0	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.2	53.5	25.4	.9	.0	.0	100.0	114

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	4.6	45.1	12.7	1.3	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	2
1-2	.0	3.8	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
3-4	.0	.8	.8	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
5-6	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
7-9	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	16.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	0
TOTAL	49	122	43	14	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	237	2
PCT	20.7	51.5	18.1	5.9	2.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1827-1971

APRIL

AREA 0008 WEST BORNED
.5N 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.1	2.8	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	90.3
NE	.5	.0	.0	.0	.0	.0	.0	.5	2.1	.5	.0	.0	.0	.0	96.9
E	3.1	3.1	.0	.0	.0	.0	.0	6.2	3.1	5.4	.0	.0	.0	.0	85.3
SE	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	4.0	.0	.0	.0	.0	87.9
S	.0	2.4	.0	.0	.0	.0	.0	2.4	8.2	3.7	.0	.0	.0	.0	85.4
SW	3.8	1.5	.0	.0	.0	.0	.0	5.7	8.6	8.6	.0	.0	.0	.0	81.0
W	5.5	5.5	2.7	.0	.0	.0	.0	13.7	11.0	11.0	.0	.0	.0	.0	64.4
NW	.0	5.0	2.5	.0	.0	.0	.0	7.5	5.0	1.3	.0	.0	.0	.0	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	95.8
TOT PCT	2.0	2.0	.4	.0	.0	.0	.0	4.4	3.4	4.4	.0	.0	.4	.0	87.6
TOT OBS:	251														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST BLNG SNOW	NO SIG WEA
00003	3.0	4.5	.0	.0	.0	.0	.0	7.6	3.0	.0	.0	.0	.0	.0	89.4
06009	.0	.0	1.5	.0	.0	.0	.0	1.5	5.9	.0	.0	.0	.0	.0	92.6
12015	3.1	.0	.0	.0	.0	.0	.0	3.1	3.1	7.7	.0	.0	.0	.0	87.7
18021	1.7	3.4	.0	.0	.0	.0	.0	5.2	1.7	12.1	.0	.0	1.7	.0	79.3
TOT PC- TOT OBS:	1.9	1.9	.4	.0	.0	.0	.0	4.3	3.5	4.7	.0	.0	.4	.0	87.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRPQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	3.8	7.6	.5	.0	.0	.0		11.9	5.3		15.0	17.4	11.7	12.9	10.2	14.3	11.9	9.0
NE	4.3	8.2	1.9	.0	.0	.0		14.3	5.8		13.5	13.0	19.3	10.2	12.8	21.4	13.6	10.7
E	2.7	5.2	.9	.0	.0	.0		8.8	5.5		11.5	21.7	10.1	4.3	8.2	19.6	7.0	6.0
SE	2.5	5.8	.9	.0	.0	.0		8.8	5.1		11.7	8.7	11.1	5.4	5.6	8.9	9.7	7.3
S	3.8	6.0	.9	.2	.0	.0		10.2	5.2		9.1	4.3	9.5	10.2	12.2	.0	17.1	13.0
SW	2.8	7.9	.7	.1	.0	.0		11.5	5.4		5.5	6.5	10.0	19.4	13.7	7.1	13.4	10.9
W	2.5	5.5	1.1	.1	.0	.0		9.1	6.2		5.3	6.5	9.6	14.5	10.4	10.7	5.5	10.3
NW	2.3	4.0	.1	.3	.1	.0		5.8	6.5		8.8	4.3	5.6	7.0	6.8	10.7	5.9	8.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.5							16.5	.0		19.5	17.4	13.2	16.1	20.1	7.1	22.8	24.8
TOT OBS	378	439	91	6	1	0	875		4.6		113	23	235	93	144	14	136	117
TOT PCT	43.2	50.2	5.8	.7	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	8.7	3.2	.0	.0	.0		11.9	5.3	15.4	12.0	10.6	10.6	
NE	10.3	3.8	.2	.0	.0		14.3	5.8	13.4	10.7	13.6	12.3	
E	6.3	2.5	.0	.0	.0		8.8	5.5	13.2	8.5	9.2	6.5	
SE	7.2	1.5	.1	.0	.0		8.8	5.1	11.2	9.5	5.9	8.6	
S	7.9	2.2	.1	.1	.0		10.2	5.2	8.3	9.7	11.1	11.5	
SW	8.4	3.1	.1	.1	.0		11.5	5.4	5.7	12.7	13.1	12.3	
W	5.9	2.9	.3	.0	.0		9.1	6.2	5.5	11.0	10.4	7.7	
NW	4.7	1.6	.2	.2	.0		6.8	6.5	8.1	6.0	7.1	6.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	18.5						18.5	.0	19.1	14.0	19.0	23.7	
TOT OBS	681	182	9	3	0	875		4.6	136	328	158	253	
TOT PCT	77.8	20.8	1.0	.3	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1957-1971

APRIL

AREA 0008 WEST BORNEO
.5N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	19.1	25.0	49.3	5.9	.7	.0	.0	.0	4.5	100.0	136
0600	14.0	29.6	47.6	7.6	1.2	.0	.0	.0	4.9	100.0	328
1200	19.0	17.7	36.3	7.0	.9	.0	.0	.0	4.8	100.0	158
1800	23.7	22.5	30.2	2.4	.4	.0	.0	.0	4.1	100.0	253
TOT	142	216	439	51	6	1	0	0	4.0		875
PCT	16.5	24.7	50.2	5.8	.7	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.7	2.3	5.1	1.1		4.1
NE	2.1	4.4	11.1	2.1		4.1
E	5.1	1.8	4.2	4.1		4.0
SE	4.5	1.8	3.2	2.4		4.1
S	1.5	1.4	3.5	1.1		4.8
SW	1.5	2.3	4.2	.8		4.9
W	.0	1.2	1.5	1.7		6.4
NW	1.7	.0	5.1	.2		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.8	2.4	7.2	.6	146	4.7
TOT OBS	38	30	75	23	100.0	4.6
TOT PCT	22.9	18.1	45.2	13.9		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3999	7999	15999	31999	63999	ANY HGT	OBS
.0	.0	.0	1.2	1.1	1.0	.0	.0	.0	.0	9.0	
.0	.0	.0	.0	2.0	.6	.6	.0	.0	.0	16.6	
.6	.0	.0	.6	1.5	.6	.0	.0	.0	.0	11.9	
.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	9.5	
.0	.0	.0	.5	1.1	1.4	.0	.0	.0	.0	4.5	
.0	.0	.0	.6	1.4	.3	.6	.0	.0	.0	5.9	
.6	.0	.0	.0	1.1	.5	.6	.0	.0	.0	1.7	
.0	.0	.0	.0	1.4	.6	.0	.0	.0	.0	5.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	11.4	
2	0	0	8	17	10	3	0	0	0	126	166
1.2	.0	.0	4.8	10.2	6.0	1.8	.0	.0	.0	75.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >2000	7.1	7.7	7.7	7.7	7.7	7.7	7.7	7.7
= OR >1000	15.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8
= OR >600	17.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
= OR >300	17.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
= OR >150	17.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
= OR >0	17.8	22.5	23.1	23.1	23.1	23.1	23.1	23.1
TOTAL	30	38	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 169

PCT FREQ NH <5/8: 76.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.4	19.8	33.3	16.4	7.9	8.5	5.1	5.1	3.4	1.1	177

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1857-1971

APRIL

AREA 0008 WES BORNED
.5N 107.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.8	
2<5	PCP	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.8	
	NO PCP	.4	.0	.0	.4	.0	.4	.4	.0	.0	.0	1.6	
	TOT %	.4	.0	.4	.4	.0	.8	.4	.0	.0	.0	2.4	
5<10	PCP	.7	.1	.7	.4	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.6	2.7	.7	1.9	1.0	.4	.8	.8	.0	.4	9.2	
	TOT %	1.3	2.8	.7	2.3	1.0	.4	.8	.8	.0	.4	10.4	
10+	PCP	.0	.0	.4	.0	.2	.2	.0	.4	.0	.0	1.2	
	NO PCP	12.9	16.8	11.5	7.2	6.7	8.6	5.1	6.6	.0	9.2	84.7	
	TOT %	12.9	16.8	11.9	7.2	6.9	8.8	5.1	7.0	.0	9.2	85.9	
TOT OBS													
TOT PCT													
		14.6	19.6	13.0	9.9	7.9	10.4	6.9	8.0	.0	9.6	100.0	249

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.1	.2	.1	.0	.0	.8	
2<5	0-3	.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.6	
	4-10	.0	.0	.2	.4	.0	.4	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.4	.4	.0	.4	.2	.0	.0	.0	1.7	
5<10	0-3	.0	.2	.0	.4	.0	.2	.0	.0	.0	.4	1.2	
	4-10	.7	1.2	.3	.5	.9	.2	.3	.4	.0	.0	5.2	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	1.5	.3	1.4	.9	.4	.3	.4	.0	.4	6.8	
10+	0-3	2.6	4.3	2.2	1.8	3.3	2.0	2.0	2.0	.0	19.3	39.4	
	4-10	6.4	8.0	5.3	3.5	6.2	7.5	4.0	3.5	.0	.0	47.5	
	11-21	.0	2.1	1.0	.0	.0	.2	.0	.0	.0	.0	3.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	9.0	14.4	5.5	7.4	9.5	9.6	6.3	5.5	.0	19.3	90.5	
TOT OBS													
TOT PCT													
		9.9	15.8	10.2	9.3	10.5	10.7	7.8	6.0	.0	10.7	100.0	482

APRIL

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1857-1971AREA 0008 WEST BORNED
.5N 107.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 699	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.2	.0	.0	4.3	6.5	6.5	.0	.0	.0	.0	19.6	80.4	46
06009	.0	.0	.0	5.9	5.9	9.8	5.9	.0	.0	.0	27.5	72.5	51
12015	.0	.0	.0	4.3	10.9	2.2	.0	.0	.0	.0	17.4	82.6	46
18021	3.0	.0	.0	3.0	18.2	3.0	.0	.0	.0	.0	27.3	72.7	33
TOT	2	0	0	8	17	10	3	0	0	0	40	136	176
PCT	1.1	.0	.0	4.5	9.7	5.7	1.7	.0	.0	.0	22.7	77.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.1	3.2	4.3	89.5	95
06009	.0	.7	1.4	.0	5.7	92.2	141
12015	.0	.0	.9	4.6	3.7	90.7	108
18021	.0	.0	.0	.0	10.4	89.6	144
TOT	0	1	4	8	33	442	488
PCT	.0	.2	.8	1.6	6.8	90.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	2.2	2.2	6.5	13.0	80.4	46
06009	.0	.0	5.9	21.6	72.5	51
12015	.0	.0	4.8	14.3	81.0	42
18021	.0	.0	3.3	23.3	73.3	30
TOT	1	1	4	30	130	166
PCT	.6	.6	5.3	17.8	76.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.7	.0	.0	.0	.0	1	.7
90/94	.0	.0	.0	.0	1.9	.0	.0	.0	2	1.3
85/89	.0	.0	.0	.0	4.0	11.4	.0	.7	24	16.1
80/84	.0	.0	.0	.0	1.9	31.3	43.6	3.4	119	79.6
75/79	.0	.0	.0	.0	.0	.0	.7	1.3	3	2.0
TOTAL	0	0	0	1	10	64	65	6	149	100.0
PCT	.0	.0	.0	.7	6.7	43.0	44.3	3.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.7	.2	.5	.0	.0	.0	.0	.0	.0	.0
.7	2.7	3.7	3.0	.7	2.0	.5	.2	.0	2.7
6.9	13.6	11.6	9.4	6.9	8.6	4.4	7.9	.0	8.7
.5	.8	.0	.0	.0	.7	.0	.0	.0	.0
10.7	17.3	15.8	13.1	7.6	11.2	4.9	8.1	.0	11.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	91	86	82	78	77	76	82.5	139
06009	95	94	91	84	79	76	72	84.6	322
12015	89	88	86	83	80	78	78	82.7	157
18021	89	86	84	82	80	75	75	82.0	252
TOT	95	93	88	83	79	76	72	83.2	870

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.8	41.7	50.0	5.6	80	36		
06009	.0	2.6	18.4	55.3	18.4	5.3	76	38		
12015	.0	.0	4.5	40.9	50.0	4.5	80	44		
18021	.0	.0	.0	29.4	64.7	5.9	82	34		
TOT	0	2	10	64	69	8	79	152		

APRIL

PERIOD: (PRIMARY) 1900-1971
(OVER-ALL) 1857-1971

AREA 0008 WEST BORNED
.3N 107.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	77 80	81 84	85 88	89 92	>92	TOT	% FOG	% FOG
11/13	.0	.0	.4	.2	.2	1	.2	.4
7/8	.0	.0	.4	.0	.4	2	.0	.9
5	.0	.0	.4	.2	.4	2	.0	.4
4	.0	1.3	.9	.4	.0	6	.0	2.0
3	.4	.4	.9	.2	.2	4	.0	1.7
2	.4	3.0	4.7	.9	.0	21	.0	8.9
1	.0	3.4	2.6	.0	.0	14	.0	6.0
0	1.7	9.8	4.3	.2	.0	37	.0	15.7
-1	.9	14.9	2.6	.0	.0	43	.0	18.3
-2	1.7	17.0	.9	.0	.0	46	.2	19.6
-3	.9	8.1	.0	.0	.0	21	.2	8.9
-4	2.1	7.7	.4	.0	.2	24	.2	10.2
-5	1.7	1.3	.0	.2	.0	7	.2	3.0
-6	.0	1.7	.0	.0	.0	4	.2	1.7
-7/-8	.4	.4	.2	.2	.2	4	.2	.4
-11/-13	.0	.4	.0	.0	.0	1	.2	.4
TOTAL	24	63	43	2	2	235	.0	23.0
PCT	10.2	69.4	18.3	1.3	.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	.9	.0	.0	.0	.0	1.8	1.9	1.9	1.2	.0	.0	.0	4.3
1-2	1.2	10.7	.0	.0	.0	.0	11.9	1.2	5.5	2.4	.0	.0	.0	9.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.4	3.7	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	11.6	.0	.0	.0	.0	13.7	2.7	9.5	7.3	.0	.0	.0	19.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	2.4	.3	.0	.0	.0	.0	2.7
1-2	.0	8.8	.0	.0	.0	.0	9.8	.3	10.7	1.2	.0	.0	.0	11.0
3-4	.0	2.4	1.2	.0	.0	.0	3.7	.0	1.2	1.2	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.2	1.2	.0	.0	.0	13.4	2.7	12.2	1.2	.0	.0	.0	16.2

PERIOD: (OVER-ALL) 1963-1971

APRIL

AREA 0008 WEST BURNED
.5N 107.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.2	2.7	.0	.0	.0	.0	.0	4.9
1-2	.0	3.4	.0	.0	.0	.0	4.3	.0	4.9	.3	.0	.0	.0	.0	5.2
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.3	.0	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	.0	.0	.0	.0	5.2	1.2	8.0	.3	.0	.0	.0	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	2.4	6.1	.0	.0	.0	.0	.0	8.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	2.4	6.1	.0	.0	.0	.0	.0	8.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.2	7.1	1.2	.0	.0	.0	28.6	
1-2	6.0	4.4	3.6	.0	.0	.0	14.0	
3-4	.0	7.1	6.0	.0	.0	.0	13.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	26.2	63.1	10.7	.0	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.5	49.6	9.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	2
6-7	.0	3.0	3.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	1.5	.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	12.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
TOTAL	35	75	18	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	2
PCT	26.3	56.4	13.5	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0008 WEST WIND-ED
3M 107.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHUR	DRZL	FRZG P	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST PLWG SNOW	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	91.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	7.3	.0	.0	.0	.0	7.3	5.5	.0	.0	.0	.0	.0	87.3
SE	1.8	1.8	.4	.0	.0	.0	.0	6.0	2.2	3.0	.0	.0	.0	.0	90.2
S	2.4	.7	2.6	.0	.0	.0	.0	6.3	5.5	1.5	.0	.0	.0	.0	88.7
SW	2.4	1.2	.0	.0	.0	.0	.0	3.5	2.9	4.7	.0	.0	.0	.0	88.8
W	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	3.9	.0	.0	.0	.0	92.4
NW	4.3	.0	8.7	.0	.0	.0	.0	13.0	4.3	1.1	.0	.0	.0	.0	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	6.7	.0	.0	.0	.0	.0	8.7	4.3	8.7	.0	.0	.0	.0	78.3
TOT PCT OBS:	2.6	1.5	1.9	.0	.0	.0	.0	5.6	3.4	3.4	.0	.0	.0	.0	87.7

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHUR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT GB TIME	PCPN PAST HOUR	THOR LTNG	FOG AT PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG MEAS
0000	1.5	3.0	1.5	.0	.0	.0	.0	6.1	4.5	.0	.0	.0	.0	.0	89.4
0600	3.9	2.6	2.6	.0	.0	.0	.0	9.1	3.9	.0	.0	.0	.0	.0	87.0
1200	.0	.0	1.5	.0	.0	.0	.0	1.5	3.1	3.1	.0	.0	.0	.0	92.3
1800	4.3	2.9	1.4	.0	.0	.0	.0	7.1	1.4	11.4	.0	.0	.0	.0	80.0
TOT PCT TOT OBS:	2.5 278	2.2	1.8	.0	.0	.0	.0	6.1	3.2	3.6	.0	.0	.0	.0	87.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	1.7	.1	.1	.0	.0		3.5	5.4	.8	5.3	2.1	3.2	5.3	2.8	5.0	5.7	
NE	1.4	1.8	.1	.0	.0	.0		3.2	4.7	3.5	2.6	3.6	1.6	4.3	2.8	1.5	4.2	
E	.8	5.6	.3	.0	.0	.0		6.7	6.1	8.5	13.2	8.5	4.2	4.1	.0	7.5	5.2	
SE	2.7	13.9	2.9	.0	.0	.0		19.1	7.1	27.1	15.8	23.0	15.8	14.7	13.9	15.4	15.1	
S	5.7	18.0	2.6	.0	.0	.0		29.0	6.6	29.1	13.2	25.1	26.3	31.2	25.0	23.3	27.4	
SW	3.1	17.9	2.0	.0	.0	.0		16.1	6.5	14.0	25.3	17.0	17.9	19.9	16.7	16.0	12.7	
W	1.7	1.9	1.3	.0	.0	.0		6.9	7.2	5.8	5.9	4.6	12.1	7.5	16.7	5.6	6.1	
NW	1.9	3.2	.8	.0	.0	.0		5.9	6.3	3.5	18.4	6.4	6.3	3.9	16.7	6.3	5.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	12.9							12.9	.0	13.5	.0	10.5	12.6	9.0	5.6	19.2	17.9	
TOT OBS	269	511	85	1	0	0	866		5.7	130	19	235	95	133	18	130	106	
TOT PCT	31.1	39.0	9.8	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.7	.6	.1	.1	.0		3.5	5.4	1.3	2.4	5.0	5.3	
NE	2.5	.7	.0	.0	.0		3.2	4.7	3.4	3.0	4.1	2.8	
E	4.7	1.6	.1	.0	.0		6.7	6.1	9.1	7.3	3.6	6.5	
SE	9.7	9.2	.2	.0	.0		19.1	7.1	25.7	20.9	14.6	15.3	
S	14.8	10.2	.6	.0	.0		25.6	6.6	21.8	25.5	20.5	25.2	
SW	9.8	9.9	.4	.0	.0		16.1	6.5	15.6	15.8	19.5	14.5	
W	3.3	3.1	.3	.0	.0		6.9	7.2	5.7	7.5	8.6	5.8	
NW	4.0	1.4	.5	.0	.0		5.9	6.3	5.4	6.4	5.5	6.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	12.9						12.9	.0	12.1	11.2	8.6	18.6	
TOT OBS	340	285	20	1	0	866		5.7	149	350	191	236	
TOT PCT	64.7	32.9	2.3	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0008 WEST BORNED
.5N 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	12.1	17.4	60.4	10.1	.0	.0	.0	.0	5.8	100.0	149
06009	11.2	19.4	56.7	12.4	.3	.0	.0	.0	5.9	100.0	330
12015	8.6	17.2	63.6	10.6	.0	.0	.0	.0	6.2	100.0	151
18021	18.6	17.4	58.5	5.5	.0	.0	.0	.0	5.1	100.0	236
TOT	112	197	511	85	1	0	0	0	5.7		866
PCT	12.9	18.1	59.0	9.8	.1	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.2	1.4	.0		4.4
NE	.0	2.3	.0	.0		3.3
E	1.2	1.4	1.7	.0		3.6
SE	2.8	5.6	7.8	1.0		4.4
S	5.2	6.8	11.3	5.4		5.0
SW	3.3	2.6	8.0	4.0		5.3
W	1.0	1.6	3.8	1.4		5.4
NW	1.7	.3	2.8	.7		5.2
VAR	.0	.0	.0	.0		.0
CALM	4.2	4.9	2.8	.7		3.5
TOT OBS	29	39	57	19	144	4.7
TOT PCT	20.1	27.1	39.6	13.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	294	589	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.9	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.0	.0	.7	.5	.6	.0	.0	.0	3.6	
SE	.0	.0	.0	1.4	2.3	.9	.0	.0	.0	.0	12.7	
S	.0	.0	.0	.0	3.6	1.2	.0	.0	.0	.0	23.8	
SW	.0	.0	.0	.7	2.4	2.3	.7	.0	.0	.0	11.8	
W	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	7.3	
NW	.0	.0	.0	.9	.0	.0	.0	.0	.7	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	11.8	
TOT OBS	0	0	1	5	15	7	1	0	1	0	114	144
TOT PCT	.0	.0	.7	3.5	10.4	4.9	.7	.0	.7	.0	79.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	≥ 10	≥ 5	≥ 2	VSBY (NM)					≥ 0
				≥ 1	≥ 1/2	≥ 1/4	≥ 5000		
≥ 3500	.7	.7	.7	.7	.7	.7	.7	.7	
≥ 3000	.7	.7	.7	.7	.7	.7	.7	.7	
≥ 2500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
≥ 2000	16.1	20.1	20.1	20.1	21.5	21.5	21.5	21.5	
≥ 1500	16.1	20.1	20.1	20.1	21.5	21.5	21.5	21.5	
≥ 1000	16.1	20.1	20.1	20.1	21.5	21.5	21.5	21.5	
TOTAL	24	30	30	40	32	32	32	32	

TOTAL NUMBER OF OBS: 149

PCT FREQ NH <5/8: 78.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
.6	22.2	24.6	20.4	7.8	9.6	4.8	4.8	5.4	.0	167

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0008 WEST BOKNEO
SN 107.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.6	.6
	TOT %	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.7	.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
2<5	PCP	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	.7	.7
	NO PCP	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.7	.7
	TOT %	.0	.0	.4	.2	.2	.4	.0	.4	.0	.0	1.5	1.5
5<10	PCP	.0	.0	.0	.4	.4	.0	.0	.7	.0	.4	1.9	1.9
	NO PCP	1.9	.0	1.3	3.3	3.0	2.0	1.4	1.6	.0	.7	18.8	18.8
	TOT %	1.9	.0	1.3	3.7	3.4	2.0	1.4	2.3	.0	1.1	18.7	18.7
10+	PCP	.0	.0	.0	.1	1.2	.4	.0	.0	.0	.4	2.2	2.2
	NO PCP	2.8	2.7	3.5	14.0	20.5	12.6	6.8	5.9	.0	7.1	75.5	75.5
	TOT %	2.8	2.7	3.5	14.7	21.7	13.2	6.8	5.9	.0	7.5	78.7	78.7
TOT OBS													268
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	.4
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.0	.3	.1	.0	.0	.8	.8
2<5	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4
	4-10	.0	.0	.0	.1	.2	.4	.1	.2	.0	.0	1.2	1.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.1	.2	.4	.1	.4	.0	.2	1.8	1.8
5<10	0-3	.4	.0	.0	.6	.3	.3	.2	.5	.0	1.0	3.4	3.4
	4-10	.3	.2	.6	1.9	1.4	1.1	.8	.6	.0	.0	6.9	6.9
	11-21	.0	.0	.1	.8	.2	.3	.2	.5	.0	.0	2.0	2.0
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.9	.2	.7	3.3	2.0	1.7	1.2	1.6	.0	1.0	12.5	12.5
10+	0-3	1.0	.9	.8	1.7	3.4	2.0	1.6	2.0	.0	12.1	25.5	25.5
	4-10	2.0	1.2	3.1	10.4	17.0	10.2	5.1	3.2	.0	.0	52.1	52.1
	11-21	.1	.0	.9	2.2	1.8	1.2	1.0	.4	.0	.0	6.9	6.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	3.1	2.1	4.2	14.2	22.2	13.4	7.9	5.5	.0	12.1	84.4	84.4
TOT OBS													495
TOT PCT													100.0

MAY

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972AREA 0008 WEST BORNED
SN 107.3F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY PGT	TOTAL OBS
00003	.0	.0	.0	3.0	9.1	.0	.0	.0	.0	.0	12.1	87.9	33
06009	.0	.0	.0	9.1	6.8	9.1	2.3	.0	2.3	.0	20.5	70.5	44
12015	.0	.0	.0	.0	10.3	2.6	.0	.0	.0	.0	12.8	87.2	39
18021	.0	.0	2.4	2.4	14.3	4.8	.0	.0	.0	.0	23.8	76.2	42
TOT	0	0	1	6	16	7	1	0	1	0	32	126	148
PCT	.0	.0	.6	3.8	10.1	4.4	.6	.0	.6	.0	20.3	79.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.0	1.0	2.0	11.1	83.8	99
06009	.0	.0	1.3	.0	11.1	87.6	153
12015	.0	.0	.9	2.8	13.1	83.2	107
18021	.0	.7	.7	2.7	14.4	81.5	146
TOT	0	3	5	6	63	425	505
PCT	.0	.6	1.0	1.8	12.5	84.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	6.5	6.5	6.5	87.1	31
06009	.0	.0	9.5	21.4	69.0	42
12015	.0	.0	.0	13.9	86.1	36
18021	.0	2.5	5.0	20.0	75.0	40
TOT	0	3	8	24	117	149
PCT	.0	2.0	5.4	16.1	78.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/94	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.6	19.0	9.2	1.3	49	92.0
80/84	.0	.0	.0	.0	.7	24.8	22.7	5.2	97	63.4
75/79	.0	.0	.0	.0	.0	.7	3.3	6	6	3.9
TOTAL	0	0	0	0	6	67	65	15	153	100.0
PCT	.0	.0	.0	.0	3.9	43.8	42.5	9.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/94	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
85/89	.0	1.3	1.5	9.0	8.8	3.8	2.0	1.8	.0	3.9
80/84	1.3	.8	4.6	14.7	15.2	9.3	4.9	4.7	.0	7.8
75/79	1.3	.0	.0	.0	1.3	.7	.0	.0	.0	.7
TOTAL	2.6	2.1	6.0	23.7	26.0	13.7	6.9	6.5	.0	12.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	89	86	83	79	76	75	83.2	151
06009	94	91	89	85	82	75	73	84.5	328
12015	89	88	86	83	79	77	73	83.0	147
18021	89	86	85	83	79	73	75	82.6	233
TOT	94	93	87	83	80	77	73	83.5	659

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	34.3	34.3	11.4	82	35	35
06009	.0	.0	10.8	54.1	29.7	5.4	77	37		
12015	.0	.0	5.0	47.5	40.0	7.3	79	40		
18021	.0	.0	.0	38.2	51.1	12.8	82	47		
TOT	0	0	6	68	70	15	80	159		

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0008 WEST BORNED
.34 107.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	# FOG
9/10	.0	.0	.0	.0	.0	.8	2	.0	.8
7/8	.0	.0	1.9	.0	.0	.0	5	.0	1.9
6	.0	.0	.4	.0	.0	.0	1	.0	.4
5	.0	.0	.0	.0	.0	.0	1	.0	.4
4	.0	.0	1.1	.0	.0	.0	2	.0	2.5
3	.0	.0	.4	1.5	1.5	.0	3	.0	3.4
2	.0	.0	1.5	4.4	.0	.0	10	.0	6.1
1	.0	.0	2.7	4.4	.0	.0	19	.0	7.2
0	.8	.0	8.7	7.5	.0	.0	44	.0	17.1
-1	.0	.0	9.1	4.6	.0	.0	36	.0	13.7
-2	.4	.0	18.0	1.1	.0	.0	53	.0	20.2
-3	.0	.0	8.0	1.1	.4	.0	25	.0	9.5
-4	.0	.8	9.1	.0	.0	.0	20	.0	9.9
-5	.4	.0	1.5	.8	.0	.0	7	.0	2.7
-6	.0	.4	1.1	.4	.0	.0	5	.0	1.9
-7/-8	.0	1.1	.4	.0	.0	.0	4	.0	1.5
-9/-10	.0	.8	.0	.0	.0	.0	2	.0	.4
-11/-13	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	4		170		7		203	0	203
PCT	1.3	3.4	64.6	27.0	2.7	.8	100.0		100.0

PERIOD: (OVER-ALL) 1943-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
3-4	1.4	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	1.4	.0	.0	.0	.0	2.8	.0	2.8	.0	.0	.0	.0	2.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.8	3.9	.0	.0	.0	.0	6.7
1-2	.0	.0	.0	.0	.0	.0	.0	2.1	3.1	.0	.0	.0	.0	5.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.6	.0	.0	.0	9.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	4.9	13.2	5.6	.0	.0	.0	23.6

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0008 WEST BORNED
.5N 107.3E

TABLE 18 (PONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.4	.0	.0	.0	.0	2.4	1.4	.0	.0	.0	.0	.0	1.7
1-2	2.1	16.3	2.8	.0	.0	.0	21.2	.0	8.3	.0	.0	.0	.0	8.3
3-4	.0	2.4	.0	.0	.0	.0	2.4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	21.2	2.8	.0	.0	.0	26.0	1.4	9.4	1.4	.0	.0	.0	12.2

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	1.0	1.0	.0	.0	.0	2.0	1.4	3.1	.0	.0	.0	.0	4.5	
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	1.0	.0	.0	.0	4.2	1.4	4.5	.3	.0	.0	.0	6.3	77.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.4	13.7	.0	.0	.0	.0	41.1	0.0
1-2	5.5	32.9	4.1	.0	.0	.0	42.5	0.0
3-4	1.4	8.2	5.5	.0	.0	.0	15.1	0.0
5-6	.0	.0	1.4	.0	.0	.0	1.4	0.0
7	.0	.0	.0	.0	.0	.0	.0	0.0
8-9	.0	.0	.0	.0	.0	.0	.0	0.0
10-11	.0	.0	.0	.0	.0	.0	.0	0.0
12	.0	.0	.0	.0	.0	.0	.0	0.0
13-16	.0	.0	.0	.0	.0	.0	.0	0.0
17-19	.0	.0	.0	.0	.0	.0	.0	0.0
20-22	.0	.0	.0	.0	.0	.0	.0	0.0
23-25	.0	.0	.0	.0	.0	.0	.0	0.0
26-32	.0	.0	.0	.0	.0	.0	.0	0.0
33-40	.0	.0	.0	.0	.0	.0	.0	0.0
41-48	.0	.0	.0	.0	.0	.0	.0	0.0
49-60	.0	.0	.0	.0	.0	.0	.0	0.0
61-70	.0	.0	.0	.0	.0	.0	.0	0.0
71-86	.0	.0	.0	.0	.0	.0	.0	0.0
87+	.0	.0	.0	.0	.0	.0	.0	0.0
TOT PCT	34.2	54.3	11.0	.0	.0	.0	100.0	73

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.7	36.4	8.6	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	2
6-7	.0	3.1	7.8	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
8-9	.0	1.6	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	23.4	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	0
TOTAL	43	31	21	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128	2
PCT	35.2	39.8	16.4	6.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1856-1972

TABLE 1

AREA 0008 WEST BORDERED
.4N 107.3E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	9.8	.0	.0	.0	.0	.0	.0	9.8	36.6	7.2	.0	.0	.0	.0	46.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	10.4	.0	.0	.0	.0	.0	89.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	1.7	.8	.0	.0	.0	.0	2.5	.0	.4	.0	.0	.0	.0	97.1
S	4.3	.9	.6	.0	.0	.0	.0	5.7	1.1	4.8	1.1	.0	1.1	.0	86.1
SW	.9	.9	.0	.0	.0	.0	.0	1.7	6.8	5.1	.0	.0	.0	.0	86.3
W	.0	4.4	9.4	.0	.0	.0	.0	10.3	5.2	.0	.0	.0	.0	.0	83.8
NW	.9	3.8	.0	.0	.0	.0	.0	3.8	13.4	3.8	.0	.0	.0	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.0	1.2	.8	.0	.0	.0	.0	4.0	4.0	2.8	.4	.0	.4	.0	88.4
TOT OBS	249														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	2.9	1.4	.0	.0	.0	.0	.0	4.2	2.9	.0	1.4	.0	1.4	.0	89.9
06009	1.7	1.7	3.3	.0	.0	.0	.0	6.7	3.3	.0	.0	.0	.0	.0	90.0
12015	.0	1.3	.0	.0	.0	.0	.0	1.3	7.9	2.6	.0	.0	.0	.0	88.2
18021	5.6	.0	.0	.0	.0	.0	.0	5.6	1.9	11.1	.0	.0	.0	.0	81.5
TOT PCT	2.3	1.2	.8	.0	.0	.0	.0	4.2	4.2	3.1	.4	.0	.4	.0	87.6
TOT OBS	259														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	48+					00	03	06	09	12	15	18	21
N	1.4	1.2	.0	.0	.0	.0	.0		2.6	4.3		1.5	3.6	4.2	3.4	2.5	.0	2.1	.9
NE	.7	1.7	.2	.0	.0	.0	.0		2.6	5.3		1.5	21.4	1.5	4.3	2.8	5.9	1.1	3.1
E	1.1	6.1	.7	.0	.0	.0	.0		7.8	6.4		8.7	10.7	6.7	5.6	.0	8.2	13.2	
SE	2.9	17.0	4.2	.0	.0	.0	.0		24.0	7.6		27.4	17.9	29.3	19.2	22.4	6.8	20.0	23.2
S	4.1	21.3	5.7	.1	.0	.0	.0		31.1	7.4		32.5	14.3	27.4	28.4	37.4	52.9	34.9	25.4
SW	1.3	9.4	2.3	.1	.0	.0	.0		13.1	7.9		12.5	10.7	12.6	17.5	9.9	26.5	14.9	11.4
W	1.3	4.1	.9	.1	.0	.0	.0		6.3	6.9		7.5	3.6	4.6	4.6	8.8	.0	5.7	4.4
NW	1.1	2.2	.4	.0	.0	.0	.0		3.8	6.3		2.1	3.6	3.5	4.3	4.6	.0	5.3	3.5
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6								8.6	.0		6.2	14.3	8.0	11.5	6.0	5.9	7.6	14.9
TOT OBS	202	969	130	2	0	0	0	903		6.6		146	14	226	104	151	17	131	114
TOT PCT	22.4	63.0	14.4	.2	.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	41+	41+					00	03	09	15	21
N	2.1	.5	.0	.0	.0	.0	.0		2.6	4.3		1.7	3.9	2.2	1.5	
NE	2.1	.5	.0	.0	.0	.0	.0		2.6	5.3		3.4	2.4	3.1	2.0	
E	5.0	2.7	.2	.0	.0	.0	.0		7.8	6.4		4.9	6.7	5.1	10.5	
SE	11.2	12.0	.8	.0	.0	.0	.0		24.0	7.6		28.6	26.1	21.0	21.5	
S	15.4	14.9	.9	.0	.0	.0	.0		31.1	7.4		30.9	27.7	39.0	30.5	
SW	5.8	6.5	.8	.0	.0	.0	.0		13.1	7.9		12.3	14.2	11.6	13.3	
W	3.8	2.0	.4	.0	.0	.0	.0		6.3	6.9		7.2	6.0	7.9	5.1	
NW	2.2	1.6	.0	.0	.0	.0	.0		3.8	6.3		2.2	3.8	4.2	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	8.6								8.6	.0		6.9	9.1	6.0	11.0	
TOT OBS	508	367	28	0	0	0	0	903		6.6		160	390	168	245	
TOT PCT	56.3	40.6	3.1	.0	.0	.0	.0		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(COVER-ALL) 1856-1972

JUNE

AREA 0008 WEST BORNED
.44 107.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.9	15.6	61.3	16.3	.0	.0	.0	6.7	100.0	160
04009	9.1	12.7	62.1	15.8	.3	.0	.0	6.7	100.0	330
12615	6.0	14.9	62.5	16.7	.0	.0	.0	7.1	100.0	168
14621	11.0	13.1	65.7	9.8	.4	.0	.0	6.0	100.0	245
TOT	78	124	569	130	2	0	0	6.6		903
PCT	8.6	13.7	63.0	14.4	.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD COVER
N	.0	1.8	1.3	2.3	6.3
NE	.3	.0	1.3	1.0	6.1
E	1.5	.7	3.6	.0	4.4
SE	5.9	4.1	10.7	2.6	4.6
S	7.1	7.9	12.0	7.1	4.0
SW	1.0	.7	3.6	5.4	6.3
W	.0	2.3	4.1	1.8	5.3
NW	.0	.3	1.5	.7	4.4
VAK	.0	.0	.0	.0	.0
CALM	.0	2.0	3.3	.0	5.3
TOT OBS	24	33	63	32	152
TOT PCT	15.8	21.7	41.4	21.1	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	100	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	499	699	1099	1499	1999	2499	2999	3499	ANY HGT	OBS
.0	.0	.0	.7	2.3	.0	.0	.0	.0	.0	.0	2.5
.0	.0	.7	.0	.3	.7	.0	.0	.0	.0	.0	1.0
.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	4.8
.0	.7	1.0	.8	.7	.2	.0	.7	.0	.7	.0	20.7
.0	.0	.3	2.0	3.5	1.8	.0	.0	.0	.0	.0	27.5
.0	.0	.0	.3	2.1	.2	.7	.0	.0	.0	.0	7.6
.0	.0	.0	1.6	.3	.0	.0	.0	.0	.0	.0	6.1
.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	1.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	3.9
0	1	3	10	15	5	1	1	0	1	115	152
.0	.7	2.0	6.6	9.9	3.3	.7	.7	.0	.7	75.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.6	.6	.6	.6	.6	.6	.6
>5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>2000	4.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1
>1000	13.3	15.2	15.2	15.2	15.2	15.2	15.2	15.2
>600	18.4	21.5	21.5	21.5	21.5	21.5	21.5	21.5
>300	19.6	23.4	24.1	24.1	24.1	24.1	24.1	24.1
>150	20.3	24.1	24.7	24.7	24.7	24.7	24.7	24.7
>0	20.3	24.1	24.7	24.7	24.7	24.7	24.7	24.7
TOTAL	32	38	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 158

PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
2.3	16.9	27.1	16.9	11.9	6.8	2.3	4.0	11.9	.0	177

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1856-1972

JUNE

AREA 0008 WEST BORNED
.4N 107.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.4	1.2	.0	.0	.0	.0	.0	1.6	
	TOT %	.0	.0	.0	.4	1.2	.0	.3	.1	.0	.0	2.0	
5<10	PCP	.0	.0	.0	.0	.7	.1	.0	.0	.0	.0	.8	
	NO PCP	.0	.4	.2	4.9	3.0	2.4	7.0	.4	.0	.4	13.8	
	TOT %	.0	.4	.2	4.9	3.7	2.5	7.0	.4	.0	.4	14.6	
10+	PCP	.4	.0	.0	.4	1.3	.1	.0	.0	.0	.0	2.4	
	NO PCP	9.7	4.5	5.4	18.1	28.9	9.2	4.1	2.1	.0	4.5	80.6	
	TOT %	4.1	4.5	5.4	18.5	30.3	9.3	4.1	2.1	.0	4.5	83.0	
TOT OBS													247
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
2<5	0-3	.0	.0	.1	.1	.0	.1	.3	.1	.0	.0	.4	
	4-10	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.5	.6	.3	.3	.1	.0	.0	1.9	
5<10	0-3	.0	.0	.0	.2	.0	.2	.3	.1	.0	.4	1.3	
	4-10	.0	.2	.5	1.6	1.9	1.6	1.0	.2	.0	.0	5.5	
	11-21	.0	.0	.0	1.1	1.0	.2	.1	.0	.0	.0	2.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.5	2.9	2.4	2.0	1.4	.3	.0	.4	10.2	
10+	0-3	1.3	1.0	1.2	1.5	3.7	.8	1.3	.9	.0	6.5	18.1	
	4-10	1.5	1.2	9.7	19.7	20.0	9.0	2.8	.9	.0	.0	55.7	
	11-21	.0	.4	.6	3.3	3.7	.2	.4	.5	.0	.0	13.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.8	2.6	7.5	20.5	29.5	10.0	4.5	2.3	.0	6.5	87.0	
TOT OBS													463
TOT PCT													100.0

JUNE

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1858-1972AREA 0008 WEST BORNEO
4N 107.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

MOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	6.3	4.2	12.5	4.2	.0	.0	.0	2.1	29.2	70.8	48
06009	.0	2.6	2.6	5.1	5.1	2.6	.0	2.6	.0	.0	20.5	79.5	39
12015	.0	.0	.0	5.9	3.4	3.4	.0	.0	.0	.0	13.7	86.3	51
18021	.0	.0	.0	8.8	17.6	.0	2.9	.0	.0	.0	29.4	70.6	34
TOT PCT	.0	1 .6	4 2.3	10 5.8	16 9.3	5 2.9	1 .6	1 .6	0 .0	1 .4	39 22.7	133 77.3	172 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

MOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	2.9	12.6	84.5	103
06009	.8	.0	.8	.8	7.2	90.4	123
12015	.9	.0	.0	3.5	10.6	85.0	113
18021	.8	.0	.0	.8	12.1	86.4	132
TOT PCT	3 .6	0 .0	1 .2	9 1.9	50 10.6	410 86.7	473 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

MOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	6.5	10.9	19.6	69.6	46
06009	.0	5.7	14.3	11.4	74.3	35
12015	.0	.0	6.5	8.7	84.8	46
18021	.0	.0	9.7	22.6	67.7	31
TOT PCT	0 .0	5 3.2	16 10.1	24 15.2	118 74.7	158 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.7	17.3	7.8	1.1	40	23.0
80/84	.0	.0	.0	.0	1.7	31.6	31.6	6.3	124	71.3
75/79	.0	.0	.0	.0	.0	.0	3.4	1.7	9	5.2
TOTAL	0	0	0	0	4	74	78	16	174	100.0
PCT	.0	.0	.0	.0	3.4	42.5	44.8	9.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0
1.0	1.6	1.7	5.3	6.8	.6	2.9	.1	.0	2.9
3.7	1.6	4.2	21.4	23.3	8.9	4.3	1.6	.0	2.3
.0	.0	.0	.0	1.7	1.1	.6	1.1	.0	.6
4.7	3.2	5.9	27.4	32.3	10.6	7.8	2.9	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	86	83	79	76	75	82.9	136
06009	94	91	88	84	79	76	75	84.1	328
12015	88	87	86	83	80	77	77	83.2	165
18021	86	85	85	83	79	75	74	82.5	243
TOT	94	89	87	83	79	76	74	83.3	492

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	35.4	34.2	10.4	81	48
06009	.0	.0	7.5	49.0	40.0	7.5	79	40
12015	.0	.0	3.8	41.5	49.4	11.3	81	53
18021	.0	.0	2.4	50.0	40.5	7.1	80	42
TOT	0	0	6	78	82	17	80	183

JUNE

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1956-1972

TABLE 17

AREA 0006 WEST BORNEN
.4M 107.3E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TJT	# FOG	# FOG
7/8	.0	.0	.0	.3	.0	2	.0	.9
5	.0	.0	1.3	.4	.9	6	.0	2.5
4	.0	.0	1.3	.0	.0	3	.0	1.3
3	.0	.0	.0	.4	.4	2	.0	.9
2	.0	.0	1.7	3.4	.4	13	.0	5.6
1	.0	.0	3.4	4.7	.0	19	.0	8.2
0	.0	.0	13.8	2.2	.0	37	.0	15.9
-1	.0	.0	6.9	3.9	.0	25	.0	10.8
-2	.0	.9	14.2	3.9	.0	14	.0	19.0
-3	.0	.9	8.6	1.3	.0	75	.0	10.8
-4	.0	3.4	8.2	.4	.0	28	.0	12.1
-5	.0	1.3	2.2	.9	.0	10	.0	4.3
-6	.0	.4	1.7	.0	.0	5	.0	2.2
-7/-8	.4	1.3	2.2	.0	.0	9	.0	3.9
-9/-10	.4	.9	.0	.0	.0	3	.0	1.3
-11/-13	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	3	21	152	52	4	232	0	232
PCT	1.3	9.1	65.5	22.4	1.7	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	1.3	.0	.0	.0	2.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	3.1	.0	.0	.0	.0	3.1	.0	11.3	.3	.0	.0	.0	13.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	.9	.0	.0	.0	5.3	1.4	20.3	5.9	.0	.0	.0	27.8

PERIOD: (OVER-ALL) 1963-1972

JUNE

TABLE 18 (CONT)

AREA 0008 WEST BORDIER
.4N 107.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	2.2	11.9	4.4	.0	.0	.0		16.4	.0	3.4	4.1	.0	.0	.0		7.5
3-4	.0	10.3	2.2	.0	.0	.0		12.5	.0	3.1	3.6	.0	.0	.0		6.7
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.2	22.2	6.6	.0	.0	.0		30.9	.0	6.6	7.8	.0	.0	.0		14.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.9	.0	.0	.0	.0	.0		.9	.3	.0	.0	.0	.0	.0		.3	
1-2	1.3	4.4	.0	.0	.0	.0		6.6	.0	1.9	2.5	.0	.0	.0		4.4	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	2.2	4.4	.0	.0	.0	.0		6.6	.3	1.9	2.5	.0	.0	.0		4.7	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.5	8.3	.0	.0	.0	.0	17.9	285
1-2	4.8	34.1	10.7	.0	.0	.0	50.0	
3-4	.0	19.0	9.5	.0	.0	.0	28.6	
5-6	.0	.0	3.6	.0	.0	.0	3.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.3	61.9	23.8	.0	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.0	33.6	29.1	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	2
6-7	.0	.7	3.0	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
8-9	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
10-11	.0	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.0	.7	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	24	50	45	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	2
PCT	17.9	37.3	33.6	9.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1853-1972

JULY

AREA 0008 WEST BORNES
.4N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.7	3.4	.0	.0	.0	.0	.0	.1	.0	3.0	.0	.0	1.4	.0	91.6
S	2.6	2.6	.0	.0	.0	.0	.0	3.3	7.6	3.2	.0	.0	.0	.0	88.9
SW	12.9	3.0	3.0	.0	.0	.0	.0	18.9	3.0	6.1	.0	.0	.0	.0	72.0
W	9.9	.0	5.6	.0	.0	.0	.0	15.5	14.1	4.2	.0	.0	5.6	.0	60.6
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	20.0	.0	.0	.0	.0	.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	66.7
TOT PCT	4.2	2.5	.8	.0	.0	.0	.0	7.5	2.9	4.2	.0	.0	.0	.0	84.6
TOT OBS	240														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.1	1.7	.0	.0	.0	.0	.0	6.8	1.7	.0	.0	.0	1.7	.0	89.8
06009	1.4	4.3	.0	.0	.0	.0	.0	5.7	2.9	.0	.0	.0	.0	.0	91.4
12015	3.3	1.7	.0	.0	.0	.0	.0	5.0	3.3	5.0	.0	.0	.0	.0	86.7
18021	7.4	1.9	3.7	.0	.0	.0	.0	13.0	3.7	14.8	.0	.0	1.9	.0	66.7
TOT PCT	4.1	2.5	.8	.0	.0	.0	.0	7.4	2.9	4.5	.0	.0	.0	.0	84.4
TOT OBS	243														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.4	.1	.0	.0	.0		.7	4.8		.4	.0	.2	2.3	1.6	.0	.0	.0
NE	.4	.5	.2	.0	.0	.0		1.1	6.1		1.1	.0	2.1	.9	.3	.0	.0	2.3
E	.6	4.7	1.1	.1	.0	.0		6.7	7.4		7.1	3.1	8.8	2.8	4.4	4.2	6.5	9.5
SE	1.3	16.5	11.0	.5	.0	.0		29.3	10.0		30.8	42.2	33.8	22.9	23.5	35.4	27.2	32.4
S	1.7	24.0	17.1	.5	.0	.0		38.4	9.6		40.4	39.1	35.3	46.0	42.1	39.6	38.3	30.2
SW	1.2	4.3	4.3	.3	.0	.0		13.1	8.8		8.5	9.4	12.9	13.8	16.6	6.3	13.4	14.4
W	.6	1.9	1.1	.2	.0	.0		3.7	9.3		2.6	.0	3.6	4.2	4.8	14.6	9.5	3.2
NW	.3	1.6	.7	.0	.0	.0		2.6	8.3		3.0	6.3	1.7	4.2	3.9	.0	2.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		5.3	.0	1.7	2.8	2.6	.0	8.7	8.1
TOT OBS	79	531	272	15	.0	.0		917	6.9		133	18	237	107	152	12	149	111
TOT PCT	10.8	57.9	29.7	1.6	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.6	.1	.0	.0	.0			.7	4.8		.3	.9	1.5	.0
NE	.9	.2	.1	.0	.0			1.1	6.1		1.0	1.7	.3	1.0
E	3.8	2.4	.5	.0	.0			6.7	7.4		6.7	8.9	4.4	7.8
SE	8.0	18.7	2.6	.0	.0			29.3	10.0		32.0	30.4	24.4	29.4
S	10.3	25.3	2.6	.2	.0			38.4	9.6		40.3	38.7	41.9	34.8
SW	5.5	6.2	1.5	.0	.0			13.1	8.8		8.6	13.2	15.9	13.8
W	1.4	1.9	.3	.1	.0			3.7	9.3		2.3	3.8	5.5	3.4
NW	1.1	1.4	.2	.0	.0			2.6	8.3		4.0	2.5	3.7	1.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	4.4							4.4	.0		4.7	2.0	2.4	8.5
TOT OBS	329	514	71	2	.0			917	6.9		149	344	164	260
TOT PCT	35.9	56.1	7.7	.3	.0			100.0			100.0	100.0	100.0	100.0

JULY

AREA 0008 WEST BORNEO
14N 107.4E

TABLE 6

PERCENTAGE FREQUENCY OF WIND SPEEDS BY HOUR (GMT)

HJUR	CAIM	1-3		4-10		WIND 11-21		SPEED (MPH) 22-33		WAVE 34-47	GEO	PER FREQ		TOTAL RMS
00603	4.7	5.4	80.4	28.2	1.3	.0	.0	8.7	100.0	149				
00609	2.0	4.4	57.3	33.4	3.2	.0	.0	10.0	100.0	164				
13015	2.4	5.5	32.9	4.6	.0	.0	.0	9.6	100.0	384				
16021	8.5	8.5	59.2	23.5	4.4	.0	.0	7.8	199.0	280				
YCT	40	59	531	272	1.5	.0	0	8.9		217				
POT	4.4	5.6	57.9	29.7	1.6	.0	.0	100.0						

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN
				FBSCD	FB5	CLOUD COVER
N	.0	.0	.0	.0		4.7
NE	.0	.0	.0	.0		.0
E	.0	.0	1.0	.0		0.3
SE	5.4	8.0	13.5	3.5		4.4
S	6.3	9.3	12.0	11.0		5.1
SW	2.4	1.3	5.0	3.7		5.3
W	.0	.0	3.2	3.4		0.6
NW	.0	.0	1.3	.0		0.6
VAR	.0	.0	.0	.0		.0
CALM	.0	1.3	1.3	.0		4.6
TOT CDS	24	31	63	38	146	5.1
TOT PCT	15.4	19.7	41.4	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 5/8$ BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	2000	2100	TOTAL
				MBSCD	MB5	COVER	149	298	447	596	745	894	1043	1192	1341	1490	1639	1788	1937	2086	2235	156
N	.0	.0	.6	.0		4.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	1.8	.6		6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	5.4	8.0	13.5	3.5		4.4	.0	.0	.0	1.6	2.7	.6	1.1	.0	.3	.0	.0	.0	.0	.0	.0	24.0
S	6.3	9.3	12.8	11.9		5.1	.0	.0	.0	4.6	5.3	.5	2.1	.0	.3	.0	.0	.0	.0	.0	.0	27.4
SW	2.4	1.3	5.9	3.7		5.3	.0	.0	.0	1.6	1.8	1.0	1.3	.6	.0	.0	.0	.0	.0	.0	.0	7.1
W	.6	.0	3.2	3.4		6.6	.0	.0	.0	.5	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
NW	.0	.0	1.3	.6		6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	.6	1.3	1.3	.6		4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
TOT CHS	24	31	63	38	196	9.1	0	0	0	13	18	7	9	1	3	0	0	0	0	0	0	105
TOT PCT	15.4	19.9	41.4	26.4	100.0		.0	.0	.0	8.3	11.5	4.5	5.3	.4	1.9	.0	.0	.0	.0	.0	.0	67.3

TABLE 9

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (IN 24/2) AND VSBY (44)

	CEILING (FEET)	VSBY (NM)							
		≥ 10	≥ 0R ≥ 5	≥ 0R ≥ 2	≥ 0R ≥ 1	≥ 0R ≥ 1/2	≥ 0R ≥ 1/4	≥ 0R ≥ 500D	≥ 0R ≥ 0
• MR	≥ 6500	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
• MR	≥ 5000	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
• MR	≥ 3500	7.6	8.2	8.2	8.2	8.2	8.2	8.2	8.2
• MR	≥ 2000	10.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7
• MR	≥ 1000	20.3	22.8	24.1	24.1	24.1	24.1	24.1	24.1
• MR	≥ 600	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
• DR	≥ 300	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
• DR	≥ 150	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
• DR	≥ 0	24.7	31.0	32.3	32.3	32.3	32.3	32.3	32.3
	TOTAL	39	49	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 150

PCT FREQ 4H C5/B1 67.7

TABLE 7a

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

0	1	2	3	4	5	6	7	8	9	TOTAL
7.1	12.0	16.4	16.9	13.1	11.4	6.6	5.5	10.9	.0	785

PERIOD: (PRIMARY) 1966-1972
(OVER-ALL) 1859-1972

JULY

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.4	.0	.0	.8	.4	.0	.0	1.7	1.7
	TOT %	.0	.0	.0	.4	.4	.0	.8	.4	.0	.0	2.1	2.1
2<5	PCP	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.8	.8
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.0	.1	.6	.0	.4	.0	.0	.0	1.2	1.2
5<10	PCP	.0	.0	.0	.4	.0	1.4	.3	.0	.0	.0	2.1	2.1
	NO PCP	.0	.0	.3	3.4	3.8	.9	1.6	.4	.0	.0	10.0	10.0
	TOT %	.0	.0	.3	3.9	3.8	1.9	1.9	.4	.0	.0	12.1	12.1
10+	PCP	.0	.0	.0	.7	1.4	1.9	.4	.4	.0	.0	4.2	4.2
	NO PCP	.4	.0	3.1	25.7	33.4	10.9	3.0	.8	.0	2.5	80.4	80.4
	TOT %	.4	.0	3.1	26.5	34.8	11.8	3.4	1.3	.0	2.5	84.6	84.6
TOT OBS													240
TOT PCT													
		.4	.0	3.4	30.8	39.6	13.8	7.4	2.1	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.6	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.4	.2	.0	.0	.0	.0	.8	.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.2	.3	.3	.0	.2	.0	.0	1.0	1.0
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.3	.3	.4	.2	.0	.0	1.4	1.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.4	.4	.1	.0	.2	.0	.0	1.0	1.0
	11-21	.0	.0	.0	.1	.2	.0	.2	.2	.0	.0	.6	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.5	.5	.1	.2	.4	.0	.0	1.6	1.6
5<10	0-3	.0	.0	.0	.0	.0	.4	.7	.0	.0	.2	.8	.8
	4-10	.0	.0	.2	1.2	1.4	.5	.4	.2	.0	.0	3.9	3.9
	11-21	.0	.1	.1	1.2	1.3	.7	.5	.1	.0	.0	4.1	4.1
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.1	.3	2.6	2.7	1.6	1.1	.3	.0	.2	8.9	8.9
10+	0-3	.2	.2	.3	.6	1.7	1.0	.7	.4	.0	3.4	8.3	8.3
	4-10	.5	.4	4.7	19.0	22.1	7.2	1.9	.8	.0	.0	52.5	52.5
	11-21	.0	.0	.1	10.9	10.5	3.1	.8	.0	.0	.0	25.4	25.4
	22+	.0	.0	.0	.1	.5	.2	.0	.0	.0	.0	.8	.8
	TOT %	.7	.6	5.1	28.6	34.8	11.5	3.3	1.2	.0	3.4	87.2	87.2
TOT OBS													493
TOT PCT													
		.7	.7	5.3	30.0	38.7	13.7	5.0	2.1	.0	3.7	100.0	

JULY

PERIOD: (PRIMARY) 1904-1972
(OVER-ALL) 1854-1972AREA 0008 WEST BORNHEO
.6N 107.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH 4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000	140	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.1	12.8	2.6	7.7	.0	5.1	.0	33.3	66.7	39
06009	.0	.0	.0	5.9	7.8	2.0	5.9	2.0	.0	.0	23.5	76.5	51
12015	.0	.0	.0	11.6	7.0	9.3	2.3	.0	.0	.0	30.2	69.8	43
18021	.0	.0	.0	7.9	15.8	2.6	5.3	.0	2.6	.0	34.2	65.8	38
TOT	0	0	0	13	18	7	9	1	3	0	51	120	171
PCT	.0	.0	.0	7.6	10.5	4.1	5.3	.6	1.8	.0	29.8	70.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.1	.0	2.2	1.1	4.4	91.2	91
06009	1.4	.0	1.4	.7	9.4	87.1	139
12015	.0	.0	.0	1.8	10.2	88.4	110
18021	.0	.0	1.9	2.6	9.6	85.9	156
TOT	4	0	7	8	44	433	496
PCT	.8	.0	1.4	1.4	8.9	87.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES UP VSBY (NM) AND/OR
CEILING HGT (FEET) NH 5/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 41	<1000 65	1000+ ANY	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.4	29.7	64.9	37
06009	.0	.0	6.4	19.1	74.5	47
12015	.0	.0	12.8	20.5	66.7	39
18021	.0	.0	14.3	22.9	62.9	35
TOT	0	0	15	36	107	158
PCT	.0	.0	9.5	22.8	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.8	.0	.0	.0	1	.6
90/94	.0	.0	.0	.0	.8	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	3.4	4.6	3.4	.0	20	11.5
80/84	.0	.0	.0	.0	4.0	35.1	39.1	3.4	142	81.6
75/79	.0	.0	.0	.0	.0	1.1	2.9	1.1	9	5.2
70/74	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
TOTAL	0	0	0	0	15	71	79	9	174	100.0
PCT	.0	.0	.0	.0	8.6	40.8	45.4	5.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	4.6	3.4	2.3	1.1	.0	.0	.0
.6	.0	2.2	24.6	35.8	11.2	3.9	.6	.0	2.9
.0	.0	.0	.6	.6	2.2	1.4	.6	.0	.0
.0	.0	.0	.0	.0	.0	.6	.0	.0	.0
.6	.0	2.2	30.3	40.2	15.7	7.0	1.1	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	87	86	83	79	76	76	82.4	149
06009	97	89	88	83	79	76	74	83.3	340
12015	86	85	85	82	79	76	75	82.1	161
18021	86	85	84	82	79	77	72	81.7	259
TOT	97	89	86	82	79	76	72	82.5	909

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.5	38.6	52.3	4.5	80		80	44
06009	.0	.0	22.4	38.7	38.8	2.0	77		77	49
12015	.0	.0	4.9	46.3	43.9	4.9	79		79	41
18021	.0	.0	.0	41.5	48.8	9.8	81		81	41
TOT	0	0	15	71	80	9	79		79	175

JULY

 PERIOD: (PRIMARY) 1906-1972
 (OVER-ALL) 1855-1972

TABLE 17

 AREA 0008 WEST BAYED
 .4N 107.4E

 PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 89	89 92	92	TOT	% FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.4	1	.0	.4
8	.0	.0	.4	.4	.9	.0	4	.0	1.7
5	.0	.0	.9	.0	.0	.0	2	.0	.9
4	.0	.0	.0	2.6	.4	.0	7	.0	3.0
3	.0	.0	.0	.0	.4	.0	3	.0	1.3
2	.0	.4	3.0	2.2	.0	.0	13	.0	5.7
1	.0	.0	6.1	1.7	.0	.0	19	.0	7.8
0	.0	.0	20.0	1.7	.0	.0	50	.0	21.7
-1	.0	1.3	13.0	1.3	.0	.0	36	.0	15.7
-2	.0	1.7	20.4	.4	.0	.0	52	.0	22.6
-3	.0	1.3	7.4	.4	.0	.0	21	.0	9.1
-4	.4	1.3	3.0	.0	.0	.0	11	.0	4.8
-5	.0	1.3	.4	.0	.0	.0	4	.0	1.7
-6	.4	1.7	.4	.0	.0	.0	5	.0	2.6
-7/-8	.0	.4	.0	.0	.0	.0	1	.0	.4
-11/-13	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	3	22	173	27	4	1	230	0	230
PCT	1.3	9.6	75.2	11.7	1.7	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.1	.0	.0	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	7.3	4.5	.0	.0	.0	11.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.4	17.1	.3	.0	.0	14.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	1.1	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	11.8	14.9	1.6	.0	.0	33.3

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0008 WEST BORNED
.4N 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	1.1	.0	.0	.0	5.6	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	7.3	4.9	.0	.0	.0	13.2	.0	4.8	.5	.0	.0	.0	5.4
3-4	.0	5.1	9.1	.8	.7	.0	15.1	.0	1.1	2.4	.0	.0	.0	3.5
5-6	.0	3.0	2.7	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.8	.8	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.9	22.3	1.6	.0	.0	43.8	.0	7.0	3.2	.0	.0	.0	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.1	1.1	.8	.0	.0	.0	3.0	.0	1.1	.0	.0	.0	.0	1.1	.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	1.1	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	1.1	1.9	.0	.0	.0	5.1	1.1	1.1	.0	.0	.0	.0	2.2	94.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	7.5	2.2	.0	.0	.0	16.1	
1-2	1.1	21.5	11.8	.0	.0	.0	34.4	
3-4	1.1	8.6	24.7	1.1	.0	.0	35.5	
5-6	.0	3.2	4.3	1.1	.0	.0	8.6	
7	.0	.0	1.1	1.1	.0	.0	2.2	
8-9	.0	.0	3.2	.0	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.6	40.9	47.3	1.9	.0	.0	100.0	93

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	23.9	23.9	10.1	2.9	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	3
6-7	.0	2.2	5.8	2.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	8.0	3.1	3.6	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	2
TOTAL	20	43	49	17	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	138	3
PCT	14.5	31.2	35.5	12.3	3.6	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 190A-1972
(OVER-ALL) 1855-1972AREA 0008 WEST BORNBO
.4N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	26.7	.0	.0	.0	.0	.0	.0	26.7	20.0	.0	.0	.0	.0	.0	53.3
NE	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	1.2	1.3	.9	.0	.0	.0	.0	1.8	.6	2.4	.0	.0	1.2	.0	94.1
S	1.2	1.8	.9	.0	.0	.0	.0	3.9	2.7	2.4	.0	.0	.9	.0	90.0
SW	6.4	3.2	.0	.0	.0	.0	.0	9.6	.6	2.6	.0	.0	.6	.0	86.5
W	32.3	.0	.0	.0	.0	.0	.0	32.3	.0	.0	.0	.0	.0	.0	67.7
NW	46.4	.0	.0	.0	.0	.0	.0	46.4	11.1	.0	.0	.0	.0	.0	46.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	25.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	75.0
TOT PCT	4.3	1.7	.4	.0	.0	.0	.0	6.4	1.7	2.6	.0	.0	.9	.0	88.4
TOT OBS	233														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
0000	3.3	3.3	1.7	.0	.0	.0	.0	6.3	5.0	3.3	.0	.0	.0	.0	83.3
0600	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	1.7	.0	93.3
1200	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	3.2	.0	.0	1.6	.0	93.3
1800	6.8	3.4	.0	.0	.0	.0	.0	10.2	1.7	3.4	.0	.0	1.7	.0	83.1
TOT PCT	4.1	1.7	.4	.0	.0	.0	.0	6.2	1.7	2.5	.0	.0	1.2	.0	88.4
TOT OBS	241														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.6	.0	.0	.0	.0		.9	4.0	1.6	5.3	.6	.0	.6	.0	.0	.0	1.1
NE	.4	.5	.0	.0	.0	.0		.9	4.3	.7	.0	1.8	.0	1.3	.0	.0	.0	.0
E	.5	3.3	.9	.0	.0	.0		4.2	7.7	2.8	8.3	4.3	4.4	4.7	.0	5.0	3.8	.0
SE	2.3	19.4	17.1	.0	.0	.0		33.8	9.7	38.8	41.7	39.3	33.8	27.4	53.3	28.3	29.1	.0
S	2.4	27.7	10.8	.5	.0	.0		41.4	9.1	36.0	25.0	40.7	44.1	47.3	30.0	41.0	43.0	.0
SW	.9	9.2	2.1	.4	.0	.0		12.5	8.5	12.4	12.5	8.0	14.2	16.6	10.0	16.9	10.2	.0
W	.3	1.2	.3	.1	.0	.0		1.4	8.8	7.4	4.2	1.8	.5	1.8	.0	1.7	3.0	.0
NW	.3	.7	.1	.0	.0	.0		1.1	5.9	1.2	.0	.2	1.0	.3	6.7	2.4	1.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.1	.0	3.1	2.0	.0	.0	3.6	8.3	.0
TOT OBS	106	615	252	9	0	0	982		8.7	145	12	254	102	155	15	166	133	
TOT PCT	15.8	62.6	25.7	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3a

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	12	18
N	.7	.2	.0	.0	.0	.0	.9	4.0	2.1	.6	.6	.8	.8
NE	.7	.2	.0	.0	.0	.0	.9	4.3	.6	1.3	1.2	.3	.3
E	1.3	2.9	.0	.0	.0	.0	4.2	7.7	3.2	4.4	4.3	4.4	4.4
SE	7.8	23.0	3.0	.0	.0	.0	33.8	9.7	39.0	37.7	29.7	28.7	28.7
S	11.3	27.9	2.1	.1	.0	.0	41.4	9.1	35.2	41.7	45.7	41.9	41.9
SW	4.6	7.2	.7	.0	.0	.0	12.5	8.5	12.4	9.8	16.0	13.9	13.9
W	.9	.8	.1	.1	.0	.0	1.9	8.8	2.5	1.4	1.6	2.3	2.3
NW	.7	.4	.0	.0	.0	.0	1.1	5.9	1.1	.4	.9	2.0	2.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	3.8	2.8	.0	5.7	5.7
TOT OBS	308	614	58	2	0	982		8.7	157	356	170	299	299
TOT PCT	31.4	62.5	5.9	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AUGUST

AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FRFQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.8	10.8	57.3	26.8	1.3	.0	.0	8.7	100.0	157
0600	2.8	5.3	56.5	33.7	1.7	.0	.0	9.8	100.0	356
1200	.0	8.2	88.2	29.5	.0	.0	.0	8.5	100.0	170
1800	5.7	7.7	69.6	16.7	.3	.0	.0	7.7	100.0	299
TOT	93	73	615	252	9	0	0	6.7		982
PCT	3.4	7.4	69.6	25.7	.9	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & BSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.3	.0		6.0
NE	.0	.7	.7	.7		6.0
E	.5	.0	.7	.5		4.4
SE	6.3	7.3	13.4	6.4		5.0
S	5.5	8.4	20.2	5.6		5.2
SW	.2	4.1	6.3	5.8		6.2
W	.0	.0	1.2	1.3		7.5
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.3	.0	1.3		6.0
TOT OBS	19	33	66	33	151	5.0
TOT PCT	12.6	21.9	43.7	21.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	294	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
.0	.0	.3	1.0	4.3	1.2	.0	.0	.0	.0	26.8	
.0	.0	.8	3.3	4.3	.8	.7	.0	.0	.5	29.3	
.0	.2	1.0	4.6	.0	.0	1.3	.0	.0	.0	9.3	
.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	1.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	1.3	
.0	.0	2	8	22	3	1	4	0	2	109	151
.0	.0	1.3	5.3	14.6	2.0	2.6	.0	1.3	72.2	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3000	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>2500	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
>2000	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
>1500	18.6	20.5	20.5	20.5	20.5	20.5	20.5	20.5
>1000	21.8	23.6	23.6	23.6	23.6	23.6	23.6	23.6
>500	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
>150	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
>0	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9
TOTAL	26	42	42	42	42	42	42	42

TOTAL NUMBER OF OBS: 156

PCT FREQ NH <5/8: 73.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	14.7	27.2	21.1	13.5	7.0	9.9	4.1	11.1	.0	171

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AUGUST

TABLE 8

AREA 0008 WEST BORNED
4N 107.4E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	3.6	4.6	1.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.4	3.6	5.0	1.0	.0	.0	.0	.0	.0	
10+	PCP	.0	.0	.0	.2	1.0	1.4	.0	.0	.0	.0	.0	
	NO PCP	1.2	1.3	1.7	30.7	29.5	14.2	2.0	.0	.0	.0	.0	
	TOT %	1.2	1.3	1.7	30.9	30.5	15.4	2.0	.0	.0	.0	.0	
TOT OBS													233
TOT PCT		1.0	1.7	2.1	35.3	35.5	15.7	7.9	1.0	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.7	.2	.2	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.7	.4	.2	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.6	1.6	1.6	1.2	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	1.0	1.4	.0	.2	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.6	2.8	3.4	1.2	.6	.0	.0	.0	.0	
10+	0-3	.5	.3	.3	2.3	2.2	.9	.6	.6	.0	3.1	10.7	
	4-10	.6	.4	3.4	20.5	23.0	9.3	.8	.6	.0	.0	58.6	
	11-21	.0	.0	.1	9.1	8.1	1.6	.3	.0	.0	.0	19.2	
	22+	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	TOT %	1.1	.8	3.8	32.0	33.5	11.9	1.6	1.2	.0	3.1	88.9	
TOT OBS													941
TOT PCT		1.2	.8	4.4	35.9	37.5	13.2	2.2	1.4	.0	3.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972AREA 0008 WEST BORNEM
.4N 107.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	11.1	11.1	2.2	.0	4.4	.0	.0	28.9	71.1	45
06009	.0	.0	.0	2.3	9.1	4.5	2.3	.0	.0	.0	18.2	81.8	44
12015	.0	.0	5.1	.0	15.4	.0	.0	7.6	.0	.0	23.1	76.9	39
18021	.0	.0	.0	5.3	18.4	.0	.0	2.6	.0	5.3	31.6	68.4	38
TOT	0	0	2	8	22	3	1	4	0	2	42	124	166
PCT	.0	.0	1.2	4.8	13.3	1.8	.6	2.4	.0	1.2	25.3	74.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.0	.0	5.6	93.3	104
06009	.0	.0	.7	1.5	9.6	88.2	136
12015	.0	.0	1.7	2.6	8.7	87.0	115
18021	.0	.0	.0	1.5	10.3	88.1	194
TOT	0	0	4	8	49	488	549
PCT	.0	.0	.7	1.5	8.9	88.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/NH
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.9	19.0	69.0	42
06009	.0	.0	2.3	16.3	81.4	43
12015	.0	5.6	5.6	19.4	75.0	36
18021	.0	.0	5.7	28.6	65.7	35
TOT	0	2	10	72	114	156
PCT	.0	1.3	5.4	20.5	73.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.0	.0	.0	2	1.2
85/89	.0	.0	.0	.0	.6	3.1	.0	.0	7	4.3
80/84	.0	.0	.0	.0	1.2	30.1	41.1	11.0	106	83.4
75/79	.0	.0	.0	.0	.0	6.1	4.9	.0	16	11.0
TOTAL	0	0	0	0	4	55	78	26	163	100.0
PCT	.0	.0	.0	.0	2.5	33.7	47.9	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85	.0	.0	.0	1.5	2.5	.3	.0	.0	.0	.0
80	1.7	1.2	1.5	27.3	32.7	18.0	1.7	.2	.0	1.2
75	.0	.0	.0	3.4	2.1	3.1	1.2	.0	.0	.6
TOT	1.7	1.4	1.5	32.8	37.9	19.3	2.9	.2	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	84	82	78	74	75	81.7	154
06009	92	90	88	83	78	75	74	83.1	122
12015	87	86	84	82	78	77	76	81.9	167
18021	85	84	83	82	78	76	76	81.4	300
TOT	92	88	86	82	79	76	74	82.1	973

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.4	31.7	48.8	17.1	83	41		
06009	.0	.0	7.0	41.9	37.2	14.0	80	43		
12015	.0	.0	.0	35.6	53.3	11.1	82	45		
18021	.0	.0	.0	24.4	51.2	24.4	84	41		
TOT	0	0	4	57	81	28	82	170		

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972AREA 0008 WEST BORNEO
.4N 107.4E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WJ FOG
9/10	.0	.0	.5	.0	.0	1	.0	.5
7/8	.0	.0	.0	.0	.5	1	.0	.5
6	.0	.0	.0	.0	.5	1	.0	.5
5	.0	.5	.0	.0	.0	1	.0	.5
4	.0	.0	.5	.9	.5	4	.0	1.8
3	.0	.0	.5	.5	.0	2	.0	.9
2	.0	.0	4.6	1.4	.0	13	.0	6.0
1	.0	.0	8.0	1.4	.0	16	.0	7.4
0	.0	.5	21.7	.9	.0	40	.0	23.0
-1	.0	.5	18.1	.5	.0	37	.0	17.1
-2	.5	3.2	14.3	.0	.0	39	.0	18.0
-3	.0	.5	8.0	.0	.0	14	.0	8.5
-4	.0	4.6	5.1	.0	.0	21	.0	9.7
-5	1.4	1.8	.5	.0	.0	8	.0	3.7
-6	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	.9	2.3	.5	.0	.0	8	.0	3.7
TOTAL	6	31	165	12	3	217	0	217
PCT	2.8	14.3	76.0	5.5	1.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	14.6	5.1	.0	.0	.0	19.6
3-4	.0	.0	.9	.0	.0	.0	.9	.0	5.4	7.0	.0	.0	.0	12.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.9	.0	.0	.0	.9	3.8	19.9	15.8	.0	.0	.0	39.4

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0008 WEST BOPNEC
4N 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.5	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	11.7	11.1	.0	.0	.0	22.8	.0	6.6	.3	.0	.0	.0	7.0
3-4	.0	5.7	4.4	1.3	.0	.0	11.4	.0	2.8	.3	.0	.0	.0	3.2
5-6	.0	2.5	1.3	.0	.0	.0	3.8	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	21.2	18.0	1.3	.0	.0	41.8	.0	10.6	1.9	.0	.0	.0	12.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.3	2.5	.0	.0	.0	.0	8.8	
1-2	2.5	33.8	16.3	.0	.0	.0	52.5	
3-4	.0	15.0	12.5	1.3	.0	.0	28.8	
5-6	.0	2.5	5.0	.0	.0	.0	7.5	
7	.0	.0	2.5	.0	.0	.0	2.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	53.8	36.3	1.3	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	5.2	25.2	28.9	8.1	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
1-2	.0	1.5	5.2	3.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
3-4	.0	.0	.7	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	2
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
15-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	3
TOTAL	6.7	3.7	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	11.9	31.1	36.3	16.3	.7	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1966-1971
(OVER-ALL) 1856-197

SEPTEMBER

AREA 0008 WEST BORNES
.4N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN CHHR	RAIL CHHR	FRZG PCPN	SNOW PCPN	OTHER FREN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3
E	8.0	.0	.0	.0	.0	.0	8.0	.0	60.7	.0	.0	.0	.0	92.0
SE	4.3	.0	.0	.0	.0	.0	4.3	.0	3.0	1.7	.0	.0	.0	55.3
S	.0	.0	1.3	.0	.0	.0	1.3	2.6	3.8	.0	.0	.0	.0	89.8
SW	4.9	.0	.0	.0	.0	.0	4.9	4.9	7.6	.0	.0	.0	.0	77.9
W	10.4	.0	4.5	.0	.0	.0	20.9	.0	.0	5.0	.0	.0	.0	73.1
NW	25.0	.0	25.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.1	.0	.9	.0	.0	.0	5.0	1.8	4.1	.9	.0	3.2	.0	85.1
TOT OBS	222													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN CHHR	RAIL CHHR	FRZG PCPN	SNOW PCPN	OTHER FREN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
0000Z	1.7	.0	.0	.0	.0	.0	1.7	3.4	1.7	.0	.0	3.4	.0	89.8
0600Z	7.1	.0	.0	.0	.0	.0	7.1	1.8	.0	1.8	.0	1.8	.0	87.5
1200Z	5.9	.0	.0	.0	.0	.0	7.8	2.0	2.0	.0	.0	5.9	.0	82.4
1800Z	3.2	.0	1.6	.0	.0	.0	4.8	.0	12.7	1.6	.0	1.6	.0	81.0
TOT PCT	4.4	.0	.9	.0	.0	.0	5.2	1.7	4.4	.9	.0	3.1	.0	85.2
TOT OBS	229													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	.8	.1	.0	.0	.0	1.4	4.4	1.9	.0	.8	2.1	.4	.0	2.2	2.0	
NE	1.0	1.1	.1	.0	.0	.0	2.2	4.3	2.6	.0	1.4	1.8	3.3	.0	1.9	3.3	
E	1.2	4.2	.5	.0	.0	.0	5.9	6.4	6.3	10.0	7.7	5.4	3.7	.0	5.0	6.5	
SE	2.1	18.4	1.8	.1	.0	.0	20.4	8.3	35.1	43.3	39.9	23.4	19.4	25.0	17.7	23.5	
S	3.3	25.6	4.6	.0	.0	.0	33.6	7.8	30.4	25.0	38.3	35.5	38.0	54.2	36.6	32.2	
SW	2.3	11.2	2.3	.2	.0	.0	10.0	7.4	17.2	15.0	12.0	17.5	19.1	16.7	18.6	14.2	
W	1.8	2.5	1.0	.2	.0	.0	5.5	7.8	2.9	.0	4.6	6.8	9.8	4.2	6.1	3.6	
NW	.3	1.2	.2	.0	.0	.0	1.7	6.4	.3	.0	.6	3.9	1.0	.0	2.0	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.2						5.2	.0	3.2	6.7	.8	3.6	5.3	.0	10.0	11.1	
TOT OBS	187	685	176	6	0	0	1054	7.3	154	15	231	140	169	12	100	153	
TOT PCT	17.7	65.0	16.7	.6	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15
N	1.4	.1	.0	.0	.0		1.4	1.4	1.3	.4	2.1
NE	2.0	.2	.0	.0	.0		2.2	4.3	2.4	1.5	3.0
E	3.6	2.2	.1	.0	.0		5.9	6.4	6.7	8.8	3.3
SE	10.3	14.8	1.3	.0	.0		26.4	8.3	32.8	30.1	19.8
S	14.8	20.0	.2	.0	.0		35.0	7.8	29.9	37.3	39.1
SW	7.9	7.6	.0	.0	.0		10.0	7.4	17.0	13.9	18.9
W	2.8	2.2	.4	.1	.0		5.5	7.8	2.7	5.4	9.4
NW	1.2	.4	.0	.0	.0		1.7	6.4	.3	1.8	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	5.2						5.2	.0	3.6	1.8	5.0
TOT OBS	518	901	34	1	0	1054	7.3		169	391	181
TOT PCT	49.1	47.5	3.2	.1	.0		100.0		100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1856-1971

AREA 0008 WEST BORNED
.4N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.6	12.4	64.5	18.9	.6	.0	.0	7.7	100.0	169
06009	1.8	13.3	63.4	20.5	1.0	.0	.0	7.9	100.0	391
12015	5.0	14.4	66.3	13.8	.6	.0	.0	6.9	100.0	181
18021	10.5	10.5	66.5	12.5	.0	.0	.0	6.4	100.0	313
TOT	55	132	685	176	6	0	0	7.7		1054
PCT	5.2	12.5	65.0	16.7	.6	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.6	.8	.0	.8		4.5
NE	.2	.0	1.1	.0		6.1
E	.0	2.3	2.9	2.2		6.1
SE	1.9	4.2	10.1	6.9		5.7
S	3.6	6.1	10.4	12.8		5.7
SW	1.3	3.4	6.7	8.2		6.0
W	1.7	1.7	5.7	2.1		5.3
NH	.0	.0	.0	.4		8.7
VAR	.0	.0	.0	.0		.7
CALM	.0	.8	.0	.8		5.5
TOT OBS	11	23	44	41	119	5.7
TOT PCT	9.2	19.3	37.0	34.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 294	300 999	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
NE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.1	
E	.0	.0	.0	.6	1.3	.0	.0	.0	.0	.0	1.7	
SE	.0	.0	.0	1.9	1.5	.8	.8	2.5	.0	.0	15.5	
S	.0	.0	1.7	3.2	2.3	.8	.8	.0	.0	.0	24.2	
SW	.0	.0	.0	.8	2.5	1.7	.0	.0	.0	.0	14.5	
W	.8	.0	.8	.6	.8	.0	.0	.0	.0	.0	8.0	
NH	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	1	3	9	10	4	2	3	0	3	84	119	
TOT PCT	.8	.0	2.5	7.6	8.4	3.4	1.7	2.5	.0	2.5	70.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	> 7R >10	> 5R >5	> 3R >2	VSBY (NM) > 7R >1	> 5R >1/2	> 3R >1/4	> 1R >50YD	> 0R >0
* NR >6500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* NR >5000	4.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
* NR >3500	3.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5
* NR >2000	8.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8
* NR >1000	17.1	18.7	18.7	18.7	18.7	18.7	18.7	18.7
* NR >600	22.0	24.4	25.2	26.0	26.0	26.0	26.0	26.0
* NR >300	23.6	26.0	26.8	28.5	28.5	28.5	28.5	28.5
* NR >150	23.6	26.0	26.8	28.5	28.5	28.5	28.5	28.5
* NR > 0	23.6	26.0	26.8	28.5	28.5	28.5	28.5	28.5
TOTAL	29	32	33	35	35	35	36	36

TOTAL NUMBER OF OBS: 123

PCT FREQ NH <5/8: 70.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
A.4	10.3	21.8	17.3	10.9	3.8	8.3	6.4	14.7	.0	156

SEPTEMBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1856-1971

AREA 0008 WEST BORNED
.4N 167.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
1/2-1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	
1-2	PCP	.0	.0	.0	.0	.5	.0	.3	.1	.0	.0	.9	
	NO PCP	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.9	.5	.9	.3	.1	.0	.0	1.8	
2-5	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.1	1.2	.0	.5	.0	.0	.0	1.8	
	TOT %	.0	.0	.0	.1	1.2	.5	.5	.0	.0	.0	2.3	
5-10	PCP	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.7	.4	.5	3.0	6.9	3.8	1.1	.2	.0	.0	16.7	
	TOT %	.7	.4	1.1	3.3	6.9	3.8	1.1	.2	.0	.0	17.6	
10+	PCP	.0	.0	.0	.9	.0	.9	.8	.1	.0	.0	2.3	
	NO PCP	.8	.2	7.3	20.4	26.2	13.4	4.4	.0	.0	1.8	74.8	
	TOT %	.8	.2	7.3	21.3	26.2	14.1	5.2	.1	.0	1.8	77.0	
TOT OBS													222
TOT PCT													
		1.5	.7	8.4	26.0	35.2	18.4	7.5	.5	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
1/2-1	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.5	
1-2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.3	.4	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.5	.4	.2	.1	.0	.0	.2	1.4	
2-5	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	.3	
	4-10	.0	.0	.1	.3	.7	.6	.3	.0	.0	.0	1.9	
	11-21	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.4	1.0	.9	.4	.0	.0	.2	3.1	
5-10	0-3	.0	.0	.3	.1	.2	.2	.0	.0	.0	.5	1.4	
	4-10	.3	.2	.4	1.2	2.8	2.0	.7	.5	.0	.0	8.0	
	11-21	.2	.0	.0	.8	1.1	.3	.1	.0	.0	.0	2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.2	.8	2.1	4.1	2.6	.8	.5	.0	.5	11.9	
10+	0-3	.6	1.1	.9	1.8	2.3	1.6	1.9	.1	.0	5.6	15.8	
	4-10	.5	.5	4.4	18.0	20.4	7.8	1.5	1.1	.0	.0	54.3	
	11-21	.0	.0	.2	4.4	5.2	1.8	.8	.0	.0	.0	12.4	
	22+	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.3	
	TOT %	1.1	1.6	5.5	24.4	28.0	11.4	4.2	1.2	.0	5.6	83.0	
TOT OBS													987
TOT PCT													
		1.5	1.8	6.4	27.5	33.7	15.1	5.7	1.8	.0	6.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1896-1971

AREA 0000 WEST BOARDED
4N 107.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/INH >4/8) AND
OCCURRENCE OF 4N <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	4N <5/8 ANY HGT	TOTAL OBS
00009	.0	.0	.0	4.9	12.2	2.4	2.4	2.4	.0	2.4	26.8	73.2	41
06009	2.9	.0	.0	5.9	5.9	2.9	2.9	.0	.0	.0	20.6	79.4	34
12015	.0	.0	9.4	6.3	6.3	3.1	.0	3.1	.0	.0	28.1	71.9	32
18021	.0	.0	.0	9.1	6.1	3.0	.0	3.0	.0	.0	27.3	72.7	33
TOT	1	0	3	9	11	4	2	3	0	3	36	104	140
PCT	.7	.0	2.1	6.4	7.9	2.9	1.4	2.1	.0	2.1	25.7	74.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	1.8	15.1	81.3	112
06009	.5	1.1	.0	3.7	8.5	86.2	188
12015	.0	1.0	2.9	2.9	15.2	78.1	105
18021	.0	.0	2.1	3.2	11.1	83.4	149
TOT	1	3	8	18	74	493	594
PCT	.2	.5	1.3	3.0	12.0	83.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/INH >4/8) BY HOUR

HOUR (GMT)	<1/2 <500	<1 <1000	<5 <1000	1000+ AND 5+	4N <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.4	24.3	70.3	37
06009	3.3	3.3	13.3	13.3	73.3	30
12015	.0	10.7	17.9	14.3	67.9	28
18021	.0	.0	14.3	21.4	64.3	28
TOT	1	4	15	23	85	123
PCT	.8	3.3	12.2	18.7	69.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.0	1.5	.0	.0	19	12.4
80/84	.0	.0	.0	.0	27.5	41.5	7.1	.0	124	81.0
75/79	.0	.0	.0	.0	.0	3.3	2.6	.0	9	5.9
TOTAL	.0	.0	.0	.0	7	56	72	16	153	100.0
PCT	.0	.0	.0	.0	4.6	36.6	47.1	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0
85/89	.0	.0	.5	4.2	5.2	1.8	.7	.0	.0	.0
80/84	1.8	1.0	8.5	21.7	24.5	14.5	6.9	.2	.0	2.0
75/79	.0	.0	.0	.7	1.6	2.9	.5	.2	.0	.0
TOTAL	1.8	1.0	9.0	26.8	31.9	19.3	8.0	.3	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%	5%	0%	MEAN	TOTAL OBS
00003	90	88	85	82	78	76	76	76	81.9														184
06009	93	90	88	83	78	75	74	75	83.1														381
12015	85	84	84	82	79	78	77	77	82.0														179
18021	86	84	83	82	79	76	74	74	81.6														313
TOT	93	89	86	82	79	76	74	74	82.3														1037

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.4	38.1	47.6	11.9			81	42
06009	.0	.0	13.2	34.2	39.9	13.2			79	38
12015	.0	.0	2.9	41.4	57.1	8.6			82	39
18021	.0	.0	.0	38.4	52.3	11.4			82	44
TOT	0	0	7	56	78	18			81	159

SEPTEMBER

PERIOD: (PRIMA) 1908-1971
(OVER-ALL) 1854-1971

TABLE 17

AREA 0008 WEST 80°-85°
4N 107.4E

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	77 80	81 84	85 88	86 92	TOT	N F70	NO FOG
11/13	.0	.0	.0	.0	1	.0	.5
7/A	.0	1.0	.0	.0	2	.0	1.0
5	.0	.5	1.0	.0	4	.0	2.0
4	.0	.0	.5	.0	1	.0	.5
3	.0	.0	.5	.0	1	.0	.5
2	.5	5.5	2.5	.0	17	.0	8.5
1	.0	7.0	3.0	.0	20	.5	9.5
0	.5	23.9	1.0	.0	51	.0	25.4
-1	.5	16.9	1.5	.0	38	.0	18.9
-2	1.5	15.4	.0	.0	34	.0	16.9
-3	2.0	3.0	1.0	.0	12	.0	6.0
-4	2.5	3.0	.0	.0	11	.0	5.5
-5	2.0	.5	.0	.0	5	.0	2.5
-6	1.0	.0	.0	.0	2	.0	1.0
-7/-10	1.0	.0	.0	.0	2	.0	1.0
TOTAL	43	154	22	2	201	1	200
PCT	11.4	76.6	10.9	1.0	100.0	.5	95.5

PERIOD: (OVER-ALL) 1908-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.5	.0	.0	.0	.0	1.5	.0	4.4	.0	.0	.0	.0	4.4
1-2	2.0	3.4	.0	.0	.0	.0	5.4	.0	12.7	.0	.0	.0	.0	12.7
3-4	.0	5.4	.0	.0	.0	.0	5.4	.0	7.4	4.9	2.0	.0	.0	14.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	10.3	.0	.0	.0	.0	12.3	.0	28.5	5.4	2.0	.0	.0	33.8

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

AREA 0008 WEST BORNED
.4N 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.6	.0	.0	.0	.0	7.4	2.0	7.8	.0	.0	.0	.0	9.8
3-6	.0	9.8	6.4	.0	.0	.0	16.2	.0	8.8	2.5	2.0	.0	.0	13.2
5-6	.0	2.0	1.5	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.1	7.9	.0	.0	.0	27.0	2.0	16.7	2.5	2.0	.0	.0	23.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.5	.0	.0	.0	.5	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.5	.0	.0	.0	.5	48.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.9	5.8	.0	.0	.0	.0	7.7	
1-2	3.8	32.7	.0	.0	.0	.0	36.5	
3-6	.0	30.8	15.4	3.8	.0	.0	50.0	
5-6	.0	3.8	1.9	.0	.0	.0	5.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	73.1	17.3	3.8	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.6	24.8	31.4	7.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	3
6-7	.0	.0	7.6	5.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	1.0	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDPT	4.2	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
TOTAL	13	32	43	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	3
PCT	12.4	30.5	41.0	14.3	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

QCTMBR

AREA 0008 WEST BORNED
.5N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LING	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	9.5	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	90.5
NE	6.3	6.3	6.3	.0	.0	.0	.0	19.0	.0	.0	.0	.0	.0	.0	81.0
E	8.0	.0	4.0	.0	.0	.0	.0	12.0	.0	4.0	4.0	.0	.0	.0	80.0
SE	2.7	.0	2.7	.0	.0	.0	.0	5.4	5.4	.0	.0	.0	.0	.0	89.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0	.0	.0	.0	94.5
SW	7.0	3.2	.0	.0	.0	.0	.0	10.2	2.7	2.1	.0	.0	.0	.0	85.0
W	17.8	4.4	3.0	.0	.0	.0	.0	25.2	7.4	.0	.0	.0	.0	.0	67.4
NW	6.8	.0	.0	.0	.0	.0	.0	6.8	2.3	.0	.0	.0	.0	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	4.5	.0	.0	9.1	.0	81.8
TOT PCT	6.3	1.7	2.1	.0	.0	.0	.0	10.1	2.5	2.1	.4	.0	.8	.0	84.0
TOT OBS:	238														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LING	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	8.8	.0	3.2	.0	.0	.0	.0	12.3	9.3	.0	.0	.0	.0	.0	82.5
0600Z	3.8	5.1	.0	.0	.0	.0	.0	8.9	.0	1.3	1.3	.0	.0	.0	88.6
1201Z	9.4	.0	3.8	.0	.0	.0	.0	13.2	.0	4.8	.0	.0	1.9	.0	81.1
1802Z	8.5	.0	1.7	.0	.0	.0	.0	10.2	5.1	3.4	.0	.0	1.7	.0	79.7
TOT PCT TOT OBS:	7.3	1.6	2.0	.0	.0	.0	.0	10.9	2.4	2.0	.4	.0	.8	.0	83.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	2.7	.2	.1	.0	.0		4.1	6.0	2.8	6.3	4.6	5.7	6.5	.0	3.3	1.8	
NE	1.1	3.2	.3	.0	.0	.0		4.7	6.0	5.6	6.3	4.1	4.9	4.7	9.1	5.8	2.6	
E	1.0	4.2	1.2	.0	.0	.0		7.3	6.5	9.1	18.8	9.3	4.1	4.0	9.1	6.8	7.7	
SE	1.7	10.2	1.5	.0	.0	.0		13.3	6.9	17.1	15.6	18.5	9.8	10.4	13.6	9.0	10.9	
S	4.1	13.4	1.7	.1	.0	.0		19.3	6.4	20.5	21.3	20.1	16.7	19.6	13.6	16.7	20.1	
SW	3.2	14.4	2.4	.3	.0	.0		19.3	7.3	18.7	15.6	17.7	14.8	23.7	18.2	21.2	20.1	
W	2.5	7.2	1.7	.4	.1	.0		11.9	7.6	12.0	.0	9.9	17.3	12.2	9.1	13.0	10.6	
NW	1.9	4.0	1.1	.1	.0	.0		7.1	6.5	6.2	6.3	5.2	10.6	6.8	9.1	7.5	8.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	13.0							13.0	.0	8.0	.0	10.6	16.3	12.0	18.2	16.7	18.2	
TOT OBS	303	581	100	8	1	0	993	13.0	5.9	162	16	236	123	138	11	150	137	
TOT PCT	30.5	58.5	10.1	.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.8	1.3	.1	.0	.0			4.1	6.0	3.1	4.9	6.1	2.6		
NE	3.2	1.3	.2	.0	.0			4.7	6.0	5.6	4.4	5.0	4.3		
E	4.3	2.9	.2	.0	.0			7.3	6.5	10.0	7.5	4.3	7.2		
SE	7.2	6.0	.2	.0	.0			13.3	6.9	17.0	15.5	10.7	9.9		
S	11.4	7.4	.4	.0	.0			19.3	6.4	21.3	18.9	19.2	18.3		
SW	10.2	8.0	1.1	.1	.0			19.3	7.3	18.4	16.7	23.4	20.6		
W	6.7	4.3	.6	.2	.0			11.9	7.6	11.0	12.4	12.0	11.8		
NW	4.7	2.0	.3	.1	.0			7.1	6.5	6.2	7.0	7.0	7.8		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	13.0							13.0	.0	7.3	12.5	12.4	17.4		
TOT OBS	632	328	30	3	0	993		13.0	5.9	178	359	169	287		
TOT PCT	63.6	33.0	3.0	.3	.0			100.0		100.0	100.0	100.0	100.0		

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1895-1971AREA 0008 WEST BORNED
.5N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.3	19.7	62.9	9.6	.0	.0	.0	5.9	100.0	178
0400	12.5	19.3	60.4	9.7	1.7	.0	.0	6.3	100.0	359
1200	12.4	20.7	52.1	14.8	.0	.0	.0	6.1	100.0	169
1800	17.4	17.1	57.1	8.0	.3	.0	.0	5.4	100.0	287
TOT	19.0	17.4	58.1	10.0	.4	1.0	.0	5.9		993
PCT	11.0	17.5	58.5	10.1	.6	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.6	2.3	.6		5.7
NE	.9	1.6	1.8	3.3		6.1
E	.0	1.6	5.7	4.3		6.2
SE	1.6	2.7	7.0	2.7		5.7
S	.0	1.8	7.0	4.9		6.4
SW	.2	.2	8.6	7.6		7.1
W	.0	.8	6.4	9.8		7.1
NW	.0	.0	1.8	1.2		7.3
VAR	.0	.0	.0	.0		.0
CAL	2.3	2.3	3.1	3.1	128	4.9
TOT OBS	8	16	36	48	100.0	6.3
TOT PCT	6.3	12.5	43.5	37.5		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	2.9
NE	.0	.0	.0	.0	2.5	.8	.2	.0	.0	.0	.0	3.9
E	.0	.0	.0	.8	2.0	.8	.6	.0	.0	.0	.0	8.2
SE	.0	.0	.0	2.5	1.8	1.0	.8	.0	.0	.0	.0	8.0
S	.0	.0	.0	2.0	2.3	.6	.0	.6	.0	.0	.0	8.2
SW	.0	.0	.0	1.4	3.9	1.6	.8	.0	.0	.0	.0	8.0
W	.0	.0	.0	4.7	3.3	.8	.0	.0	.0	.0	.0	8.0
NW	.0	.0	.0	.4	.6	.0	.8	.0	.0	.0	.0	1.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CAL	.0	.0	.0	2.3	1.6	.0	.0	.0	.0	.0	.0	7.0
TOT OBS	0	0	1	19	25	7	4	2	0	0	71	128
TOT PCT	.0	.0	.8	14.1	19.5	5.5	3.1	1.6	.0	.0	55.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0	>0	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>3500	3.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
>2000	6.1	6.3	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
>1000	19.7	25.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
>600	31.1	37.9	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
>300	31.8	38.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
>150	31.8	38.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
>0	31.8	38.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
TOTAL	42	51	57	57	57	57	57	57	57	57

TOTAL NUMBER OF OBS: 132

PCT FREQ NH <5/8: 56.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.3	7.5	20.1	12.1	14.9	10.9	10.3	13.8	8.6	.0	170

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1954-1971

DECEMBER

AREA 0008 WEST BORNHO
ON 107.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VS&W (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4
1<2	PCP	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.8
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.8
2<5	PCP	.0	.4	.0	.4	.0	.4	.7	.1	.0	.0	.0	2.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.4	.0	.4	.7	.1	.0	.0	.0	2.1
5<10	PCP	.0	.0	.8	.0	.0	1.8	.0	.0	.0	.0	.0	2.6
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.8	.0	.0	1.8	.0	.0	.0	.0	.0	2.6
10+	PCP	.4	.4	.0	.0	.0	2.8	.2	.0	.0	.0	.0	4.2
	NO PCP	3.7	4.4	7.9	11.6	11.6	14.7	7.9	3.4	.0	.0	.0	71.0
	TOT %	4.1	4.8	7.9	11.6	11.6	17.5	8.1	3.4	.0	.0	.0	75.2
TOT OBS													238
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VS&W (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.4
	4-10	.0	.0	.2	.4	.0	.2	.0	.0	.0	.0	.0	.8
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.2	.4	.0	.4	.0	.0	.0	.0	.2	1.2
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4
	4-10	.0	.0	.4	.6	.4	.5	.0	.0	.0	.0	.0	2.9
	11-21	.0	.0	.1	.1	.2	.0	.3	.0	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.5	.7	.6	.5	.3	.0	.0	.0	.2	3.9
5<10	0-3	.2	.0	.2	.3	.4	.3	.2	.2	.0	2.1	3.9	
	4-10	.5	.4	1.0	1.6	1.8	1.3	1.2	.9	.0	.0	8.7	
	11-21	.0	.0	.0	.0	.4	.8	.1	.1	.0	.0	1.3	
	22+	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.6	
	TOT %	.7	.4	1.2	1.9	2.7	2.5	1.7	1.2	.0	2.1	14.5	
10+	0-3	1.4	1.6	1.7	.6	1.3	1.7	2.7	1.7	.0	11.4	24.1	
	4-10	2.4	2.6	2.9	7.9	11.2	10.5	8.2	3.2	.0	.0	46.8	
	11-21	.3	.2	1.2	1.6	1.4	2.2	1.5	.5	.0	.0	9.1	
	22+	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.6	
	TOT %	4.0	4.4	5.8	10.1	13.8	14.6	10.7	5.4	.0	11.4	80.3	
TOT OBS													319
TOT PCT													100.0

OCTOBER

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1833-1971AREA 0008 WEST BORNHO
SN 107.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 1-9	100 2-9	200 3-9	300 4-9	400 5-9	500 6-9	600 7-9	700 8-9	800 9-9	900 10-9	1000 11-9	1100 12-9	1200 13-9	1300 14-9	1400 15-9	1500 16-9	1600 17-9	1700 18-9	1800 19-9	1900 20-9	2000 21-9	2100 22-9	2200 23-9	2300 24-9	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	10.5	23.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.2	65.8	38
0600	.0	.0	.0	8.7	8.7	4.3	6.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39.4	60.6	46
1200	.0	.0	2.7	13.5	16.2	2.7	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37.8	62.2	37
1800	.0	.0	.0	14.3	17.1	11.4	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45.7	54.3	35
TOT	0	0	0	18	23	7	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	99	196
PCT	.0	.0	.0	11.5	10.0	4.5	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.0	.0	1.9	2.9	14.3	81.0	105
0600	.0	.0	1.2	2.4	16.1	79.8	166
1200	.0	.0	3.1	5.2	14.4	77.3	97
1800	.0	.0	1.9	3.8	13.2	81.1	159
TOT	0	2	6	18	77	423	529
PCT	.0	.4	1.7	3.4	14.6	80.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 FEET	<600 FEET	<1000 FEET	1000+ FEET	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.0	12.9	29.0	58.1	31
0600	.0	.0	13.2	23.7	63.2	38
1200	.0	.0	30.3	15.2	54.5	33
1800	.0	.0	16.7	26.7	46.7	30
TOT	0	1	24	34	74	132
PCT	.0	.8	18.2	29.8	46.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
85/89	.0	.0	.0	.6	1.8	7.1	3.6	.0	22	13.0
80/84	.0	.0	.0	.0	1.8	23.1	40.2	7.7	73	72.8
75/79	.0	.0	.0	.0	.0	.6	5.3	7.7	23	13.6
TOTAL	0	0	0	1	7	52	83	26	169	100.0
PCT	.0	.0	.0	.6	4.1	30.8	49.1	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALC
90/94	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
85/89	.0	.7	2.5	2.6	2.1	2.7	1.5	.0	.0	.0
80/84	3.8	3.6	6.6	11.2	9.3	15.5	11.4	1.6	.0	7.7
75/79	.0	1.2	.0	2.4	.4	4.1	4.3	.6	.0	.0
TOT	3.8	5.5	11.5	16.1	11.8	22.3	17.2	2.8	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	89	86	84	82	78	76	75	81.7	177
0600	94	91	88	83	78	76	73	83.0	364
1200	86	85	85	82	79	76	69	81.9	167
1800	85	84	83	81	78	76	75	81.2	282
TOT	94	90	86	82	78	76	69	82.1	990

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	2.4	33.3	45.2	19.0	.0	.0	64	67
0600	.0	1.7	6.8	33.9	40.2	8.5	.0	.0	79	50
1200	.0	.0	5.3	28.9	55.3	10.5	.0	.0	81	39
1800	.0	.0	.0	25.6	41.0	33.3	.0	.0	86	30
TOT	0	1	7	45	85	30	82	178		

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

OCTOBER

AREA 0008 WEST BORNED
.5N 107.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.4	.4	2	.0	.8
4	.0	.0	.0	.8	.8	.8	6	.0	2.5
3	.0	.0	.0	.4	.4	.0	2	.0	.M
2	.0	.0	.4	3.4	2.1	.0	14	.0	5.9
1	.0	.0	.4	4.7	2.5	.0	18	.0	7.6
0	.0	.0	.0	11.0	2.5	.0	32	.4	13.1
-1	.0	.0	.8	12.3	.8	.0	33	.0	14.0
-2	.0	.8	1.7	19.9	.4	.0	54	.0	22.9
-3	.0	.0	1.8	8.5	.0	.0	23	.0	9.7
-4	.0	.0	3.8	5.9	.0	.0	2	.0	9.7
-5	.0	.0	3.0	3.0	.0	.0	16	.0	6.8
-6	.0	.0	1.3	.4	.0	.0	4	.0	1.7
-7/-8	.4	.8	2.1	.0	.0	.0	8	.0	3.4
-9/-10	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	1	5	37	166	24	3	235	1	235
PCT	.4	2.1	14.7	70.3	10.2	1.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.9	.0	.0	.0	.0	4.3	.0	3.3	.0	.0	.0	.0	3.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.9	.0	.0	.0	.0	4.3	.0	7.6	.0	.0	.0	.0	7.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	2.5	2.5	.0	.0	.0	5.1	.0	5.8	.4	.0	.0	.0	6.2
3-4	.0	2.9	.0	.0	.0	.0	2.9	.0	1.4	1.4	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.9	2.5	.0	.0	.0	9.4	.0	9.1	1.8	.0	.0	.0	10.9

AREA 0009 WEST BOPNEO
.5N 107.4E

PLOT #1-5 OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-67	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	0.7
1-2	.0	4.0	.0	.0	.0	.0	.7
3-4	.0	2.5	2.9	.0	.0	.0	3.7
5-6	.0	.0	.0	.0	.0	.0	6.2
7	.0	.0	.0	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	2.9	.0	.0	.0	12.0

HGT	1-3	4-10	11-21	22-33	34-67	48+	PCT	TOTAL PCT
<1	1.1	2.2	.0	.0	.0	.0	3.3	.4
1-2	1.4	7.6	1.1	.0	.0	.0	10.1	3.3
3-4	.0	.0	2.9	.0	.0	.0	2.9	.7
5-6	.0	.0	2.2	.0	.0	.0	2.2	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	9.8	6.2	.0	.0	.0	18.5	4.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TGT GSS
<1	17.4	2.7	.0	.0	.0	.0	20.1	
1-2	2.9	30.2	5.0	.0	.0	.0	44.9	
3-4	.0	15.9	6.7	.0	.0	.0	20.6	
5-6	.0	1.4	2.5	.0	.0	.0	4.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-14	.0	.0	.0	.0	.0	.0	.0	
15-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TNT PCT	20.3	62.3	17.4	.0	.0	.0	100.0	69

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PMI-WPV) 1915-1971
(OVER-ALL) 1854-1971

NOVEMBER

APCA 0008 WEST BOPNET
.04 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHAR	FRZL	FRZG PCPN	SNOW	OTHER FRYZ PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.1	2.2	.0	.0	.0	.0	.0	8.3	3.5	2.6	1.8	.0	.0	.0	83.8
NE	5.4	1.2	.0	.0	.0	.0	.0	11.4	2.4	.0	.0	.0	.0	.0	86.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	95.8
S	3.5	6.2	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	80.7
SW	4.7	1.0	.0	.0	.0	.0	.0	6.3	1.0	1.0	.0	.0	.0	.0	91.7
W	7.7	3.6	1.5	.0	.0	.0	.0	14.9	6.2	3.6	.0	.0	.0	.0	75.4
NW	.5	2.5	.0	.0	.0	.0	.0	3.0	5.0	.0	.0	.0	.0	.0	85.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
CALM	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	10.0	5.0	.0	.0	.0	80.0
TOT PCT	4.5	2.4	1.2	.0	.0	.0	.0	8.0	2.7	2.7	.6	.0	.0	.0	86.0
TOT OBS:	336														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHAR	FRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.8	2.4	.0	.0	.0	.0	.0	7.1	2.4	.0	.0	.0	.0	.0	90.5
0600	2.2	3.2	1.1	.0	.0	.0	.0	6.5	5.4	.0	.0	.0	.0	.0	86.2
1200	5.1	1.3	1.3	.0	.0	.0	.0	7.7	.0	1.3	1.3	.0	.0	.0	89.7
1800	6.4	2.1	2.1	.0	.0	.0	.0	10.6	3.2	8.5	1.1	.0	.0	.0	76.6
TOT PCT TOT OBS:	4.6 349	2.3	1.1	0	.0	.0	.0	8.0	2.9	2.6	.6	.0	.0	.0	86.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	2.7	9.8	1.3	.0	.0	.0		13.7	6.2	13.9	12.1	11.4	14.1	13.6	20.0	17.3	16.9
NE	2.4	6.1	.9	.0	.0	.0		9.0	5.5	11.7	20.7	11.0	8.8	4.4	11.0	4.7	10.0
E	1.5	2.3	.9	.0	.0	.0		4.0	5.0	6.3	7.1	5.0	3.3	2.9	6.3	4.3	.9
SE	1.5	3.1	.9	.0	.0	.0		5.0	5.9	5.3	18.6	3.8	3.3	5.5	2.5	4.8	5.3
S	2.2	5.6	1.0	.1	.0	.0		8.9	6.3	7.6	10.0	9.0	7.8	6.0	13.8	11.2	3.8
SW	3.1	1.0	1.8	.2	.0	.0		17.1	6.8	13.7	10.0	16.3	20.9	21.9	17.5	17.3	15.6
W	3.0	6.2	1.4	.3	.0	.0		14.2	6.7	14.0	11.4	14.2	17.0	19.4	11.9	14.1	10.6
NW	3.0	9.8	1.2	.1	.0	.0		14.2	6.3	12.0	7.1	15.2	14.1	16.2	14.4	13.8	15.0
VAR	.3	.0	.0	.0	.0	.0		.3	2.3	.6	.0	.5	.0	.6	.0	.0	.0
CALM	13.5							13.6	.0	12.8	2.9	13.2	11.1	12.3	7.5	19.2	16.9
TOT OBS	351	606	37	7	0	0	1051		5.4	164	35	189	153	154	40	156	160
TOT PCT	33.4	57.7	4.3	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-5	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		7-15	17-27	28-40	00					03	06	09	12	15	18	21
N	8.8	4.7	.2	.0	.0		13.7	6.2	13.6	12.8	14.9	13.9				
NE	6.3	2.7	.0	.0	.0		9.0	5.5	13.3	10.0	5.8	7.2				
E	3.3	.7	.0	.0	.0		4.0	5.0	6.4	4.2	3.6	2.6				
SE	3.2	1.6	.2	.0	.0		5.0	5.9	7.7	3.6	4.9	5.1				
S	5.8	3.0	.0	.1	.0		8.9	6.3	9.7	8.3	7.6	10.0				
SW	10.2	6.4	.4	.1	.0		17.1	6.8	13.1	16.3	20.0	16.5				
W	8.8	4.6	.7	.0	.0		14.2	6.7	14.6	15.4	15.5	12.3				
NW	8.9	9.0	.3	.0	.0		14.2	6.3	11.2	14.7	15.9	14.4				
VAR	.3	.0	.0	.0	.0		.3	2.3	.5	.3	.5	.0				
CALM	13.6						13.6	.0	11.1	12.3	11.3	15.0				
TOT OBS	728	302	14	2	0	1051		5.4	199	342	194	316				
TOT PCT	69.3	28.7	1.8	.2	.0		100.0		100.0	100.0	100.0	100.0				

NOVEMBER

PERIOD: (PRIMARY) 1915-1971
(COVER-ALL) 1856-1971AREA 0008 WEST BORNEN
CH 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PLT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	11.1	22.1	57.3	9.0	.5	.0	.0	5.5	100.0	199
0600	12.3	18.4	57.9	9.9	1.5	.0	.0	5.9	100.0	342
1200	11.3	21.6	56.7	9.8	.5	.0	.0	5.5	100.0	194
1800	18.0	18.7	58.2	5.1	.0	.0	.0	4.8	100.0	316
TOT	143	208	606	87	7	0	0	5.4		1051
PCT	13.6	19.4	57.7	8.3	.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL PCT	MEAN CLOUD COVER
N	2.0	.0	7.6	5.3		5.9
NE	.3	.2	7.4	.4		6.0
E	.5	1.7	1.8	1.4		5.3
SE	.6	.8	2.0	.2		4.4
S	.0	.5	2.7	3.0		7.0
SW	1.2	2.6	8.8	2.0		5.6
W	1.5	2.1	7.2	7.6		6.2
NW	.6	3.0	9.1	5.9		6.2
VAR	.0	1.7	.6	.0		4.3
CALM	1.7	.4	2.4	2.4		5.9
TOT OBS	13	27	82	47	144	5.9
TOT PCT	7.9	13.4	50.0	28.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) AND
OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL PCT	MEAN CLOUD COVER	000 149	150 299	200 599	400 999	1000 1999	2000 3499	3000 4999	5000 6499	6500 7999	8000+ ANY HGT	NH ANY HGT	TOTAL OBS
N	2.0	.0	7.6	5.3		5.9	.0	.0	.3	1.1	3.4	1.1	1.1	.0	.0	.0	8.8	
NE	.3	.2	7.4	.4		6.0	.0	.0	.3	.0	1.2	.2	.0	.0	.0	.2	6.9	
E	.5	1.7	1.8	1.4		5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.4	
SE	.6	.8	2.0	.2		4.4	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.3	
S	.0	.5	2.7	3.0		7.0	.0	.0	.0	.9	2.1	.0	.0	.0	.0	.0	3.2	
SW	1.2	2.6	8.8	2.0		5.6	.2	.0	.0	2.3	.5	.0	.0	.0	.0	.0	11.1	
W	1.5	2.1	7.2	7.6		6.2	.5	.0	.0	2.3	2.7	2.0	.6	.0	.0	.0	10.4	
NW	.6	3.0	9.1	5.9		6.2	.0	.0	.0	.7	.4	2.9	.8	.0	.0	.0	15.1	
VAR	.0	1.7	.6	.0		4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
CALM	1.7	.4	2.4	2.4		5.9	.0	.0	.0	1.8	.6	.6	.0	.0	.0	.7	3.7	
TOT OBS	13	27	82	47	144	5.9	1	.0	2	15	21	10	4	0	0	1	110	164
TOT PCT	7.9	13.4	50.0	28.7	100.0		.6	.0	1.2	9.1	12.8	6.1	2.4	.0	.0	.6	67.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH <5/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>10	>5	>2	>1	>10	>5	>2	>1	>10	>5	>2	>1
>4500	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
>5000	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
>5500	1.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>6000	6.4	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
>1000	10.9	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
>1500	24.4	31.4	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
>2000	25.6	32.6	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
>2500	25.6	32.6	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
>3000	25.6	32.6	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
TOTAL	44	50	58	58	58	58	58	58	58	58	58	58	58	58	58	58

TOTAL NUMBER OF OBS: 172

PCT FREQ NH <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

H	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
1.5	11.1	22.6	16.5	16.6	5.9	6.5	4.5	14.5	44	199

PERIOD: (PRIMARY) 1915-1971
(OVER-ALL) 1856-1971

NOVEMBER

AREA 0008 WEST BORNEO
.6N 107.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAP	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6	
2<5	PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.6	
5<10	PCP	.7	.7	.0	.0	.5	.7	1.0	.2	.0	.0	.3	
	NO PCP	3.3	2.3	1.8	.7	1.9	2.7	2.7	2.8	.0	.0	17.6	
	TOT %	4.0	3.1	1.8	.7	2.4	2.9	3.7	3.0	.0	.0	21.5	
10+	PCP	.4	.7	.0	.0	.6	.1	1.0	.2	.0	.0	.3	
	NO PCP	12.1	8.7	2.8	4.7	5.4	11.4	8.4	11.6	.9	.0	72.4	
	TOT %	12.5	9.4	2.8	4.7	6.0	11.5	10.4	11.9	.9	.0	76.4	
TOT OBS													
TOT PCT													
		17.0	12.5	4.6	6.6	8.4	14.9	14.6	14.9	.9	6.7	100.0	395

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAP	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.0	.1	.1	.3	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.3	.0	.2	.2	.2	.0	.2	1.2	
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.2	.0	.8	1.1	
	4-10	.3	.0	.0	.0	.2	.3	.1	.2	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.4	.3	.1	.3	.0	.8	2.1	
5<10	0-3	.1	.5	.6	.0	.5	.2	.5	.1	.0	.9	3.3	
	4-10	2.1	1.3	.3	.8	1.1	1.6	1.3	1.2	.0	.0	9.7	
	11-21	.3	.1	.1	.0	.2	.3	.4	.6	.0	.0	1.8	
	22+	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.5	
	TOT %	2.5	1.9	1.0	.8	1.8	2.2	2.2	1.8	.0	.9	15.3	
10+	0-3	1.7	2.5	.9	1.2	1.6	2.4	2.1	2.9	.5	11.5	27.3	
	4-10	9.2	6.4	2.2	2.5	3.2	8.8	7.3	8.8	.0	.0	48.5	
	11-21	.8	.3	.4	.4	.3	.9	1.0	.4	.0	.0	4.5	
	22+	.0	.0	.0	.0	.0	.1	.7	.0	.0	.0	.3	
	TOT %	11.7	9.2	3.4	4.1	5.2	12.2	10.6	12.3	.5	11.5	30.6	
TOT OBS													
TOT PCT													
		14.7	11.4	4.6	5.3	7.4	15.0	13.1	14.4	.5	19.5	100.0	460

NOVEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1854-1971

AREA 0008 WEST BORNED
ON 107.4E

TABLE 10

PERCENT FREQUENCY OF CILING HEIGHTS (FEET) NM 34/8) AND
OCCURRENCE OF NM 45/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	TOTAL	NM 45/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.9	3.6	9.3	9.3	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.8	72.2	94
06009	.0	.0	2.1	6.3	8.3	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.9	77.1	48
12015	.0	.0	.0	14.3	14.3	4.8	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35.7	64.3	42
18021	2.0	.0	.0	8.0	14.0	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.0	66.0	50
TOT	1	0	2	16	22	12	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	136	194
PCT	.5	.0	1.0	8.2	11.3	6.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.9	70.1	100.0

TABLE 11

PERCENT FREQUENCY /SHY (N) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.0	.0	.7	11.3	37.2	141
06009	.9	.5	7.4	1.0	10.4	84.5	193
12015	.0	.0	.0	3.1	25.4	70.8	130
18021	1.0	.0	1.0	3.3	15.8	78.9	209
TOT	4	0	8	15	102	543	673
PCT	.6	.0	1.2	2.2	15.2	80.7	100.0

TABLE 12

CUMULATIVE PCT FREQ UP RANGES OF VSHY (NM) AND/OR
CILING HGT (FEET) NM 34/8) BY HOUR

HOUR (GMT)	<120 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM 45/8 AND 5+	TOTAL OBS
00003	.0	2.2	8.9	24.4	66.7	45
06009	.0	2.2	8.9	15.6	75.6	45
12015	.0	.0	15.8	23.7	60.5	38
18021	2.3	2.3	13.6	27.3	59.1	44
TOT	1	3	20	39	113	172
PCT	.6	1.7	11.6	22.7	65.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.6	.0	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.7	1.3	.0	.0	9	5.0
80/84	.0	.0	.0	.0	.0	29.4	47.2	6.1	149	82.8
75/79	.0	.0	.0	.0	.0	.5	4.4	6.7	21	11.7
TOTAL	0	0	0	1	2	60	94	23	180	100.0
PCT	.0	.0	.0	.6	1.1	33.3	52.2	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.7	.0	.0	.0	1.1	.3	1.4	.0	.0
80/84	14.7	10.4	4.6	2.5	4.3	14.2	12.6	12.8	1.7	5.3
75/79	2.2	.8	.0	.7	1.3	.8	3.5	1.8	.0	.6
17.4	12.1	5.0	3.8	6.1	16.1	16.4	16.0	1.7	5.6	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	84	82	77	74	73	81.6	200
06009	93	89	84	82	78	75	74	82.4	445
12015	86	84	84	82	78	76	76	81.3	191
18021	85	84	83	81	74	73	75	81.1	315
TOT	93	88	85	82	78	76	73	81.6	1051

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	30.0	52.0	18.0	0	0	23	30
06009	.0	2.0	4.1	44.9	42.9	6.1	0	0	79	49
12015	.0	.0	.0	37.5	50.0	12.5	0	0	82	40
18021	.0	.0	.0	19.6	64.7	15.7	0	0	84	51
TOT	0	1	2	82	100	25	0	0	82	190

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1956-1971

NUMBER

AREA 000W WEST BORNHO
.6N 107.4E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
6	.0	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.0	.0	.0	.0	2	.0	.0
4	.0	.0	.3	.3	.3	.0	4	.0	1.2
3	.0	.0	.0	.3	.0	.0	1	.0	.3
2	.0	.3	4.0	1.8	.0	.0	25	.0	6.1
1	.0	.0	2.1	.3	.0	.0	17	.0	3.0
0	.0	.9	12.5	.9	.0	.0	47	.0	14.3
-1	.0	.3	7.3	.3	.0	.0	26	.0	7.9
-2	.0	2.4	23.4	.6	.0	.0	87	.0	26.4
-3	.3	3.6	6.7	.0	.0	.0	32	.0	10.6
-4	.0	8.5	8.8	.0	.0	.0	57	.3	17.0
-5	.3	5.2	3.6	.0	.0	.0	30	.3	8.8
-6	.0	.9	.0	.0	.0	.0	3	.0	.9
-7/-8	.0	1.2	.0	.0	.0	.0	4	.0	1.2
-9/-10	.0	.6	.0	.0	.0	.0	2	.0	.6
TOTAL	2		226		1		327	2	327
PCT	.6	79	20	.3	.3		100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	.0	.0	.0	.0	.0	2.8	4.6	.0	.0	.0	.0	.0	4.6
1-2	.0	9.5	.0	.0	.0	.0	9.5	7.8	3.9	.4	.0	.0	.0	7.0
3-4	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	12.3	1.1	.0	.0	.0	16.2	7.4	3.9	.4	.0	.0	.0	11.6

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	4.2	.0	.0	.0	.0	5.3	.3	.0	.0	.0	.0	.0	.0
1-2	1.4	2.3	2.1	.0	.0	.0	5.8	.0	1.8	.0	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	6.7	2.1	.0	.0	.0	11.3	.0	1.8	.4	.0	.0	.0	2.1

PERIOD: (OVER-ALL) 1943-1971

NOVEMBER

AREA 0008 WEST RD-NEO
ON 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	1.8	1.4	.0	.0	.0	3.2	
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4	
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.4	2.1	.0	.0	.0	2.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.5	1.1	.0	.0	.0	3.5	.0	3.9	4.9	.4	.0	.0	9.2	

W								NW								TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	1.4	2.5	.0	.0	.0	.0	3.9	1.4	.0	.0	.0	.0	.0	1.4		
1-2	.0	10.2	.0	.0	.0	.0	10.2	2.8	8.8	.0	.0	.0	.0	11.6		
3-4	.0	1.1	.0	1.4	.0	.0	2.5	.0	1.8	1.4	.0	.0	.0	3.2		
5-6	.0	1.1	1.1	.0	.0	.0	2.1	.0	1.4	.0	.0	.0	.0	1.4		
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.4	14.8	1.1	2.5	.0	.0	19.7	4.2	12.0	1.8	.0	.0	.0	18.0	91.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	23.0	5.1	.0	.0	.0	.0	31.1	
1-2	6.8	37.8	4.1	.0	.0	.0	48.8	
3-4	.0	6.8	2.7	1.4	.0	.0	10.8	
5-6	.0	2.7	4.1	.0	.0	.0	6.8	
7	.0	.0	.0	1.4	.0	.0	1.4	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	29.7	55.4	12.2	2.7	.0	.0	100.0	74

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.2	34.6	17.3	3.9	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	2
6-7	.0	1.6	2.4	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
8-9	.0	.0	3.9	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDFT	16.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	0
TOTAL	34	49	31	10	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	127	7
PCT	26.8	38.6	24.4	7.9	.0	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1856-1972

AREA 0008 WEST BORNED
.0N 107.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	4.5	1.6	1.4	.0	.0	.0	.0	7.4	2.7	.0	.0	.0	.0	.0	89.9
NE	9.6	1.3	.3	.0	.0	.0	.0	11.2	5.1	.0	.0	.0	.0	.0	83.7
E	3.2	.0	.0	.0	.0	.0	.0	3.2	.0	.0	6.3	.0	.0	.0	90.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	5.0	10.0	.0	.0	.0	.0	.0	15.0	.0	10.0	.0	.0	.0	.0	75.0
W	2.9	5.7	.0	.0	.0	.0	.0	8.6	.0	5.7	.0	.0	.0	.0	85.7
NW	3.0	.0	.0	.0	.0	.0	.0	3.0	3.6	.0	.0	.0	.0	.0	93.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	11.1	.0	.0	.0	.0	.0	11.1	11.1	.0	.0	.0	.0	.0	77.8
TOT PCT	5.2	2.0	.7	.0	.0	.0	.0	7.8	3.3	.7	.3	.0	.0	.0	87.9
TOT OBS:	307														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	5.5	2.6	1.3	.0	.0	.0	.0	10.4	2.6	.0	1.3	.0	.0	.0	85.7
0600	3.7	2.5	1.2	.0	.0	.0	.0	7.4	2.5	.0	.0	.0	.0	.0	90.1
1200	5.1	1.3	.0	.0	.0	.0	.0	6.4	5.1	1.3	.0	.0	.0	.0	87.2
1800	5.5	1.4	.0	.0	.0	.0	.0	6.8	2.7	1.4	.0	.0	.0	.0	89.0
TOT PCT	5.2	1.9	.6	.0	.0	.0	.0	7.8	3.2	.6	.3	.0	.0	.0	88.0
TOT OBS:	309														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	06	09	12	15	18	21	
N	1.1	17.2	10.8	.7	.0	.0		29.3	10.3	25.0	40.7	26.8	32.4	27.2	47.5	26.3	33.5	
NE	1.3	9.5	9.5	.6	.0	.0		17.0	9.8	18.4	28.3	20.1	13.8	13.1	33.8	13.0	14.9	
E	.7	1.9	.4	.0	.0	.0		3.2	6.6	5.5	7.9	4.0	2.9	2.5	2.5	.9	2.4	
SE	.3	1.1	.2	.0	.0	.0		1.7	6.6	1.9	2.6	2.6	.7	1.9	1.3	.9	1.8	
S	.6	1.9	.3	.0	.0	.0		2.8	6.4	2.3	2.6	2.8	2.6	3.5	.0	2.9	3.7	
SW	.9	5.3	.9	.0	.0	.0		7.1	7.2	7.4	.0	6.1	5.9	7.9	.0	9.8	8.8	
W	1.1	6.7	1.9	.3	.0	.0		9.9	8.1	7.9	2.6	11.0	15.4	10.0	5.0	12.1	6.4	
NW	.8	14.2	4.8	.6	.0	.0		20.3	9.1	22.6	9.2	18.9	23.3	21.8	10.0	21.8	19.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.2							8.2	.0	9.0	.0	7.7	2.9	12.0	.0	11.7	9.1	
TOT OBS	160	610	263	23	0	0	1056		8.4	155	38	194	136	158	40	171	164	
TOT PCT	15.2	57.8	24.9	2.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	7.1	18.3	4.4	.0	.0		29.8	10.3	29.3	29.1	31.3	29.9
NE	5.1	10.2	1.6	.1	.0		17.0	9.8	26.3	17.5	17.3	14.3
E	1.9	1.2	.0	.0	.0		3.2	6.6	6.0	3.6	2.5	1.0
SE	1.1	.5	.1	.0	.0		1.7	6.6	2.1	1.8	1.8	1.3
S	1.7	1.1	.0	.0	.0		2.8	6.4	2.3	2.7	2.8	3.3
SW	3.8	3.0	.3	.0	.0		7.1	7.2	6.0	6.0	6.3	9.3
W	5.2	3.8	.8	.1	.0		9.9	8.1	6.9	12.8	9.0	9.3
NW	7.1	11.7	1.1	.3	.0		20.3	9.1	19.9	20.8	19.4	20.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	7.3	5.8	9.6	10.4
TOT OBS	437	526	87	6	0	1056		8.4	193	330	198	335
TOT PCT	41.4	49.8	8.2	.6	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1955-1972

AREA CODE WEST BORNED
.6N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	7.3	9.8	59.6	21.8	1.6	.0	.0	8.0	100.0	193
0600Z	5.8	6.7	27.0	26.6	1.8	.0	.0	8.7	100.0	330
1200Z	9.5	5.6	55.1	27.8	2.0	.0	.0	8.5	100.0	192
1800Z	10.4	6.3	59.1	21.2	3.0	.0	.0	8.1	100.0	335
TOT	87	73	610	263	23	0	0	8.4		1056
PCT	8.2	6.9	57.8	24.9	2.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL PCT	MEAN CLOUD COVER
N	7.1	9.7	16.0	4.5		5.4
NE	.2	3.0	10.2	7.7		6.5
E	.7	.0	2.0	1.1		5.2
SE	.0	.0	.0	.7		8.0
S	.0	.0	.0	1.4		8.0
SV	.2	.0	1.4	3.8		7.5
W	.5	1.3	2.1	1.8		5.8
NW	2.0	1.4	9.1	7.0		6.7
VAB	.0	.0	.0	.0		.0
CALM	.0	.7	2.1	.7		5.6
TOT OBS	15	17	61	47	140	6.0
TOT PCT	10.7	12.1	42.6	33.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 999	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	.5	3.2	3.9	2.1	2.7	.0	.0	.0	25.7	
NE	.0	.0	.9	3.8	4.1	.0	.2	.0	.0	.0	12.1	
E	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.2	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
S	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	
SV	.0	.7	.0	.7	.7	.0	.0	.0	.0	.0	3.6	
W	.0	.0	.0	.0	1.3	1.4	.0	.0	.0	.0	2.5	
NW	.0	.0	.0	3.0	.9	2.1	.0	.0	.0	.7	12.7	
VAB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.9	
TOT OBS	1	2	15	17	16	4	0	0	1	89	140	
TOT PCT	.7	.7	1.4	10.7	12.1	7.1	2.9	.0	.0	.7	93.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	• DR • >10	• DR • >5	• DR • >2	• DR • >1	• DR • >1/2	• DR • >1/4	• DR • >50YD	• DR • >0
• DR >6500	.0	.7	.7	.7	.7	.7	.7	.7
• DR >5000	.0	.7	.7	.7	.7	.7	.7	.7
• DR >3500	.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8
• DR >2000	5.7	9.9	9.9	9.9	9.9	9.9	9.9	9.9
• DR >1000	12.8	20.6	22.0	22.0	22.0	22.0	22.0	22.0
• DR >600	19.1	29.1	31.9	32.6	32.6	32.6	32.6	32.6
• DR >300	19.1	29.8	32.6	34.0	34.0	34.0	34.0	34.0
• DR >150	19.1	30.5	33.3	34.8	34.8	34.6	34.8	34.8
• DR >0	19.1	30.5	34.0	35.5	35.5	35.5	35.5	35.5
TOTAL	27	43	48	50	50	50	50	50

TOTAL NUMBER OF OBS: 141

PCT FREQ NH <5/8: 64.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	1	2	3	4	5	6	7	8	9	TOTAL OBS
	1.3	5.8	21.2	17.9	16.0	10.9	7.7	7.1	12.2	150

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

OPCEMER

AREA 0004 WEST BORNEO
.8N 107.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
2<5	PCP	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.4	.4	.0	.0	.3	.0	.0	.0	.0	.3	2.0	
	TOT %	1.1	1.1	.0	.0	.3	.0	.0	.0	.0	.3	2.9	
5<10	PCP	1.2	.4	.2	.0	.0	.0	.0	.3	.0	.3	2.6	
	NO PCP	11.8	5.4	.5	.5	.0	.0	1.1	2.9	.0	.3	22.9	
	TOT %	12.7	6.1	.7	.5	.0	.0	1.1	3.2	.0	.7	25.5	
10+	PCP	1.4	.3	.0	.0	.0	.0	.5	.1	.0	.0	2.9	
	NO PCP	26.9	16.7	4.5	.5	.7	2.3	3.8	10.4	.0	2.0	67.0	
	TOT %	27.7	17.2	4.5	.5	.7	2.8	4.2	10.5	.0	2.0	69.9	
TOT OBS													
TOT PCT													
		41.7	25.0	5.1	1.0	1.0	3.9	9.7	13.6	.0	2.9	100.0	306

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.2	.0	.0	.0	.3	
	11-21	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.5	.0	.0	.0	.0	.2	.0	.0	.0	.8	
2<5	0-3	.0	.2	.0	.0	.2	.3	.0	.0	.0	.3	.6	
	4-10	.2	.5	.1	.1	.1	.1	.3	.0	.0	.0	1.4	
	11-21	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	1.1	
	22+	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	1.0	1.2	.2	.1	.2	.1	.3	.0	.0	.3	3.6	
5<10	0-3	.2	.4	.2	.2	.0	.0	.0	.2	.0	.8	1.9	
	4-10	2.9	.9	.1	.1	.2	.7	.9	1.4	.0	.0	7.2	
	11-21	3.4	1.8	.1	.0	.1	.2	.2	.4	.0	.0	6.2	
	22+	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.5	
	TOT %	6.7	3.3	.3	.2	.3	.9	1.2	2.0	.0	.8	15.8	
10+	0-3	.6	1.4	.9	.2	.5	.3	.4	.2	.0	7.2	11.9	
	4-10	17.7	9.2	1.7	.6	.9	2.3	3.0	11.2	.0	.0	48.8	
	11-21	9.1	4.2	.6	.1	.1	.3	.6	3.2	.0	.0	18.4	
	22+	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	27.8	14.9	3.2	.9	1.6	3.6	5.9	14.5	.0	7.2	79.6	
TOT OBS													
TOT PCT													
		33.6	20.2	3.8	1.2	2.2	4.6	7.3	16.8	.0	6.3	100.0	641

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 185A-1972

AREA 0008 WEST BOMBER
ON 107.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8 AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	5.4	10.8	10.2	5.4	2.7	.0	.0	.0	40.5	59.5	37
06009	.0	2.3	.0	9.1	6.8	6.8	4.5	.0	.0	2.3	31.8	68.2	44
12015	.0	.0	.0	13.9	10.7	5.3	2.8	.0	.0	.0	41.7	58.3	36
18021	3.2	.0	.0	6.5	6.5	6.5	.0	.0	.0	.0	22.6	77.4	31
TOT	1	1	2	15	17	10	4	0	0	1	51	97	148
PCT	.7	.7	1.4	10.1	11.5	6.8	2.7	.0	.0	.7	34.5	65.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	2.2	3.7	9.6	84.4	135
06009	.0	.6	.0	3.9	15.2	80.3	178
12015	.0	.0	1.4	.8	19.1	78.6	131
18021	.5	.0	.0	5.0	18.1	76.4	199
TOT	1	1	5	23	101	512	643
PCT	.2	.2	.8	3.6	15.7	79.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8 BY HOUR

HOUR (GMT)	<100 500YD	<600 1	<1000 5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	5.4	16.9	21.6	59.5	37
06009	.0	2.4	14.3	16.7	69.0	42
12015	.0	.0	14.3	23.6	57.1	35
18021	3.7	3.7	11.1	14.8	74.1	27
TOT	1	4	21	29	91	141
PCT	.7	2.8	14.9	20.5	64.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT RHO
90/94	.0	.0	.0	.7	.7	.0	.0	.0	2	1.4
85/89	.0	.0	.0	.0	.7	4.3	.0	.0	7	5.0
80/84	.0	.0	.0	.0	.0	22.3	43.9	7.2	102	73.4
75/79	.0	.0	.0	.0	.0	1.4	10.8	7.9	28	20.1
TOTAL	.0	.0	.0	1	2	39	76	21	139	100.0
PCT	.0	.0	.0	.7	1.4	28.1	54.7	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.7	.0	.0	.0	.0	.0	.7	.0	.0
85/89	3.4	.2	.7	.0	.0	.0	.0	.7	.0	.0
80/84	28.1	15.5	3.1	.0	.7	4.5	3.2	14.0	.0	4.3
75/79	5.3	4.7	.0	.0	.0	2.0	3.1	2.7	.0	1.4
TOTAL	37.8	21.0	3.8	.0	.7	6.5	6.3	18.2	.0	5.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	88	85	81	77	75	75	80.9	191
06009	94	90	86	82	77	75	73	81.7	332
12015	88	84	83	81	77	75	75	80.5	195
18021	87	84	83	81	76	73	73	80.2	332
TOT	94	87	84	81	77	74	73	80.9	1050

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	19.4	54.8	25.8	85	31
06009	.0	2.2	4.3	41.3	32.6	19.6	81	46
12015	.0	.0	.0	28.0	71.4	.0	82	35
18021	.0	.0	.0	14.3	71.4	14.3	84	28
TOT	.0	1	2	39	77	21	83	140

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1898-1972

DPCHNER

TABLE 17

AREA 0008 WEST BORNED
ON 107.4E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	H FOG	HG FOG
11/13	.0	.0	.0	.0	.3	.0	1	.0	.3
9/10	.0	.0	.0	.3	.0	.3	2	.0	.7
8	.0	.0	.0	.3	.3	.0	2	.0	.7
7	.0	.0	1.0	.0	.0	.0	1	.0	1.0
6	.0	.0	.3	1.7	.0	.0	0	.0	2.1
5	.0	.0	.3	.7	.0	.0	3	.0	1.0
4	.0	.3	7.3	1.0	.0	.0	25	.0	8.7
3	.0	1.0	3.8	.3	.0	.0	14	.0	5.2
2	.3	4.8	11.8	.0	.0	.0	49	.0	17.0
1	.0	1.7	7.6	.3	.0	.0	22	.0	9.7
-1	.3	10.7	15.9	.3	.0	.0	70	.0	27.3
-2	1.0	3.8	2.1	.0	.0	.0	17	.0	5.9
-3	1.4	6.2	5.2	.0	.0	.0	27	.3	12.5
-4	.7	3.5	.3	.0	.0	.0	12	.0	4.5
-5	.3	1.4	.0	.0	.0	.0	5	.0	1.7
-6	.0	.0	.0	.0	.0	.0	3	.0	1.0
-7/-8	.0	.0	.0	.0	.0	.0	1	.0	.3
-9/-10	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	10	100	162	19	1	1	289	.3	99.7
PCT	3.5	34.0	56.1	9.2	.3	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	18.6	.0	.0	.0	.0	18.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.2	11.1	.0	.0	.0	15.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.2	1.2	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	22.6	13.3	1.2	.0	.0	37.0	1.4	10.0	7.8	1.2	.0	.0	21.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.2	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	1.2	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

AREA 0008 WEST BORNED
.6N 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	5.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	5.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	2.4
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	10.2	2.7	.0	.0	.0	13.0	13.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7	.0	.0	.0	5.4	5.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	.0	.0	.0	.0	5.4	.0	15.4	5.4	.0	.0	.0	20.8	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.0	8.3	.0	.0	.0	.0	13.3	
1-2	1.2	42.9	4.8	.0	.0	.0	48.9	
3-4	.0	11.9	19.0	.0	.0	.0	31.0	
5-6	.0	.0	3.8	2.4	.0	.0	6.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-50	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	63.1	27.4	2.4	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<6	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	16.8	22.7	9.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	3
6-7	.0	9.2	8.7	3.4	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.0	1.7	1.7	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	4.2	4.2	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2
TOTAL	11	36	42	20	6	3	1	0	0	0	0	0	0	0	0	0	0	119	3
PCT	9.2	30.3	35.3	16.8	5.0	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1900-1970
(OVER-ALL) 1855-1973

ANNUAL

TABLE 1

AREA 0008 WEST BORNHOLM
53N 107.4E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SNOW	PRPL	FRIG PCPN	SNOW	OTHER FROST PCPN	HAIR	PCPN AT DE TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.9	.9	1.1	.0	.0	.0	.0	6.9	3.6	2.1	.2	.0	.1	.1	85.0
NE	4.9	1.0	1.4	.0	.0	.0	.0	7.3	1.9	8.1	.1	.0	.0	.1	76.3
E	5.2	.3	1.2	.0	.0	.0	.0	6.7	1.9	.8	.9	.0	.2	.0	89.0
SE	5.9	1.2	.6	.0	.0	.0	.0	7.5	.7	1.6	.1	.0	1.0	.0	89.3
S	2.9	4.6	1.3	.0	.0	.0	.0	6.5	2.5	2.1	.1	.0	.4	.0	88.9
SW	6.3	4.7	.3	.0	.0	.0	.0	9.3	7.6	4.0	.0	.0	.4	.0	79.0
W	9.3	3.1	1.9	.0	.0	.0	.0	14.3	4.2	2.8	.5	.0	.5	.0	77.7
NW	9.2	1.5	3.0	.0	.0	.0	.0	13.8	5.0	1.2	.8	.0	.1	.0	79.0
AW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3
CALM	.8	3.7	.0	.0	.0	.0	.0	4.5	1.3	9.8	.4	.0	.8	.0	83.2
TOT PCT	3.9	1.6	1.0	.0	.0	.0	.0	6.5	2.6	2.6	.3	.0	.6	.1	87.4
TOT OBS:	3625														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN CHHR	PRPL	FRIG PLPN	SNOW	OTHER FROST PCPN	HAIL	PCPN AT DE TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SWW	NO SIG WEA
0000Z	4.2	2.1	.8	.0	.0	.0	.0	7.1	2.8	.5	.2	.0	.6	.1		88.7
0600Z	3.3	2.0	1.0	.0	.0	.0	.0	6.3	2.8	.1	.3	.0	.3	.1		90.2
1200Z	3.6	.7	1.0	.0	.0	.0	.0	5.3	2.3	2.9	.2	.0	.9	.0		88.2
1800Z	5.4	1.5	1.3	.0	.0	.0	.0	8.1	2.2	7.6	.4	.0	.7	.1		81.2
TOT PCT TOT OBS	4.1 3723	1.6	1.0	.0	.0	.0	.0	6.6	2.6	2.7	.3	.0	.6	.1		87.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.3	8.9	3.7	.2	.0	.0		14.6	6.5	15.6	17.0	14.6	16.0	14.7	17.3	13.2	14.3
NE	1.7	7.2	2.3	.1	.0	.0		11.7	6.3	12.0	10.3	12.1	11.2	10.1	18.5	13.1	11.7
E	5.2	4.4	.7	.0	.0	.0		6.0	6.5	7.1	10.9	7.1	4.1	4.3	4.8	5.5	6.4
SE	4.6	9.1	3.2	.1	.0	.0		14.0	7.1	16.9	17.6	16.5	17.5	11.3	13.8	11.5	19.1
S	2.5	12.3	3.4	.1	.0	.0		18.3	6.8	17.5	14.0	17.0	18.7	20.2	19.3	19.3	17.6
SW	1.7	7.7	1.5	.1	.0	.0		11.1	7.1	2.3	7.3	7.7	12.7	13.1	9.7	12.4	10.4
W	1.4	4.1	1.0	.1	.0	.0		6.6	7.4	5.3	3.3	6.1	8.7	8.1	6.0	6.9	5.7
NW	1.4	5.7	1.3	.1	.0	.0		8.6	7.0	8.3	5.9	8.1	9.3	10.0	6.6	9.4	8.3
AW	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
CALM	9.7							9.0	.0	8.4	4.0	7.5	7.8	8.2	3.9	12.3	12.4
TOT OBS							1179d		7.1	1735	360	2654	1444	1828	301	1812	1610
TOT PCT	22.4	59.1	17.7	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3a

WNO	DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N		6.0	7.4	1.2	.0	.0		14.6	6.5	14.2	15.2	15.4	13.8	
NE		5.4	5.6	.6	.0	.0		11.8	6.3	13.3	11.9	11.8	10.8	
E		3.7	2.4	.2	.0	.0		6.0	6.5	7.6	6.0	4.4	5.9	
SE		5.8	7.4	.7	.0	.0		14.0	7.1	17.0	15.1	11.4	12.3	
S		8.2	9.5	.6	.0	.0		18.3	6.8	17.1	18.1	20.1	18.2	
SW		5.9	4.7	.5	.0	.0		11.1	7.1	9.7	10.7	12.6	11.4	
W		3.6	2.4	.4	.1	.0		6.6	7.4	5.3	7.0	7.7	6.3	
NW		4.5	3.7	.4	.1	.0		8.6	7.0	8.3	5.9	9.1	8.9	
VAR		.0	.0	.0	.0	.0		.0	.1	.0	.0	.0	.0	
CALM		9.0						9.0	.0	7.6	7.5	7.5	12.5	
TOT OBS							11798		7.1	2145	4102	2179	3422	
TOT PCT		92.3	43.1	4.5	.2	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1855-1973

ANNUAL

AREA OUCH WEST BARNET
.5N 107.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	7.6	14.5	59.1	17.9	.8	.0	.0	7.1	100.0	2145
0600	7.5	12.8	57.0	20.5	1.4	.0	.0	7.6	100.0	4102
1200	7.5	13.1	67.4	18.9	.5	.0	.0	7.2	100.0	2129
1800	12.5	13.2	60.1	13.6	.6	.0	.0	6.4	100.0	3422
TOT								7.1		11798
PCT	9.0	13.3	59.1	17.7	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	2.3	2.8	7.6	3.8		5.4
NE	1.2	2.7	6.5	3.1		5.1
E	1.0	1.1	2.7	1.4		2.7
SE	2.5	3.2	5.7	2.3		4.5
S	2.5	3.6	7.0	4.6		5.3
SW	.9	1.4	4.7	3.5		6.2
W	.6	1.0	3.3	2.8		6.1
NW	.8	.9	4.1	2.1		5.6
VAR	.0	.1	.1	.0		.3
CALM	1.0	1.4	2.7	1.1		5.1
TOT OBS					1442	5.5
TOT PCT	12.9	18.7	43.9	24.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 34/8 AND OCCURRENCE OF NH 43/5 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	N	43/8	TOTAL
	149	299	499	999	1499	2499	4999	6499	7999			ANY HGT	OBS
N	.1	.0	.2	1.3	2.5	.9	.7	.0	.0	.0	.0	10.4	
NE	.0	.0	.2	.9	2.3	.6	.5	.1	.0	.0	.0	8.4	
E	.1	.0	.0	.3	.9	.3	.1	.0	.1	.0	.0	4.4	
SE	.0	.1	.1	.9	1.7	.4	.2	.3	.0	.0	.0	10.3	
S	.0	.0	.2	1.5	2.1	.7	.3	.0	.0	.0	.0	12.4	
SW	.0	.0	.1	.3	1.7	.5	.3	.2	.0	.0	.0	6.4	
W	.2	.0	.1	.9	1.2	.6	.1	.1	.0	.0	.0	4.5	
NW	.0	.0	.0	.6	.8	.5	.2	.0	.0	.0	.0	3.3	
VAR	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
TOT	.4	.2	1.1	7.4	13.1	4.4	2.5	.8	.1	.0	.0	68.4	1932
TOT PCT													100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH 34/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0	>0	>0
>6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>3500	3.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
>2000	6.9	8.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
>1000	15.8	20.9	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
>600	22.1	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
>300	22.8	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
>150	22.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
>0	22.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9

TOTAL CUMULATIVE PCT FREQ 2009

PCT FREQ NH 43/8 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	3.2	12.5	22.9	17.1	12.3	8.4	6.8	6.0	10.2	.3	2242

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

ANNUAL

AREA 0008 WEST BOKED
2N 107.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
<2	PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.6	
2<5	PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.0	
5<10	PCP	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	2.1	
	NO PCP	3.1	2.4	.7	2.2	2.3	1.7	1.2	1.3	.0	.4	15.0	
	TOT %	3.4	2.7	1.0	2.5	2.6	2.0	1.5	1.6	.3	.7	17.1	
10+	PCP	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	2.6	
	NO PCP	12.6	11.2	5.0	11.5	13.9	8.4	4.5	5.3	.1	4.7	76.4	
	TOT %	13.0	11.6	5.4	11.9	14.3	8.8	4.9	5.7	.5	5.1	79.0	
TOT OBS													
TOT PCT													
		13.1	11.6	5.4	11.9	14.3	8.8	4.9	5.7	.5	5.1	100.0	3018

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	1.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	1.6	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.7	
	4-10	1.3	1.1	.4	.9	1.1	.9	.7	.8	.0	.0	7.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.4	2.2	1.1	1.0	1.1	1.0	.8	.9	.1	.1	7.9	
10+	0-3	1.4	1.6	.9	1.1	1.8	1.2	1.2	1.2	.0	.0	14.2	
	4-10	6.4	6.6	3.5	8.2	10.6	6.2	3.3	4.5	.0	.0	51.4	
	11-21	2.8	2.2	.5	2.7	2.8	1.2	.6	.7	.0	.0	13.5	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT %	12.6	10.5	4.9	12.0	15.2	8.6	5.2	6.6	.0	.0	83.4	
TOT OBS													
TOT PCT													
		15.0	13.2	5.8	14.1	17.5	10.4	6.8	8.1	.0	.0	100.0	8991

PCPD00 (PRIMARY) 1906-1973
(OVER-ALL) 1859-1973

ANNUAL

AREA 0008 WEST BORNED
.5N 107.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 289	300 509	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS.
00Z09	.2	.1	1.5	0.7	14.1	3.9	2.0	.8	.8	.4	30.7	69.3	568
06Z09	.2	.4	1.1	6.5	8.8	5.6	4.2	.6	.2	.5	28.1	71.9	573
12Z15	.2	.0	1.4	8.9	11.5	4.1	.6	.7	.0	.1	27.9	72.1	314
18Z21	.8	.0	.2	6.7	14.1	3.9	1.9	.8	.2	1.2	29.6	70.4	408
TOT PCT	.3	.1	1.1	7.1	12.1	4.5	2.3	.7	.3	.6	29.1	70.9	2153 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00Z09	.4	.2	1.2	2.1	10.9	55.1	1499
06Z09	.4	.3	1.1	1.9	10.7	55.7	2006
12Z15	.2	.1	1.7	3.7	14.4	50.3	1462
18Z21	.3	.2	.8	3.2	13.9	51.6	2129
TOT PCT	.3	.2	1.1	2.7	12.5	53.2	7097 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 450VD	<600 61	<1000 65	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00Z09	.2	2.5	9.9	22.8	67.3	526
06Z09	.3	1.8	10.6	20.1	69.3	940
12Z15	.2	2.0	13.2	17.3	69.3	476
18Z21	.6	.8	10.4	22.6	66.9	496
TOT PCT	.3	1.8	10.9	20.9	66.2	2008 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.8	.0	.0	.0	.1	.1
90/94	.0	.0	.0	.1	.5	.1	.0	.0	.7	.7
85/89	.0	.0	.0	.1	1.4	7.1	2.7	.3	11.8	11.8
80/84	.0	.0	.0	.0	1.4	27.4	39.9	6.5	75.3	75.3
75/79	.0	.0	.0	.0	.8	1.0	5.8	5.3	12.0	12.0
70/74	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
TOTAL PCT	.0	.0	.0	.3	9.6	75.5	46.4	12.2	1903	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.1	.8	.0	.0	.0	.0	.0
90/94	.1	.1	.1	.1	.2	.0	.0	.1	.0	.0
85/89	1.3	.9	1.1	2.0	2.6	1.2	.7	.4	.0	.9
80/84	11.6	9.2	4.7	11.4	13.2	8.9	5.2	6.3	.1	4.6
75/79	3.1	2.5	.5	.7	.8	1.5	1.4	1.0	.0	.3
70/74	.1	.0	.0	.0	.0	.0	.8	.0	.0	.0
TOTAL	16.3	12.6	6.4	14.9	16.9	11.6	7.3	7.8	.1	6.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z09	94	88	85	82	78	76	69	81.7	2134
06Z09	97	91	88	83	78	75	72	83.0	4081
12Z15	91	86	85	82	79	76	69	81.7	2106
18Z21	89	84	83	82	78	76	72	81.1	3408
TOT	97	89	86	82	78	75	69	82.0	11729

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z09	.0	.0	1.4	30.6	32.8	15.2	83	512		
06Z09	.0	1.1	9.2	45.2	35.5	9.0	79	524		
12Z15	.0	.0	2.4	35.2	33.4	8.9	81	492		
18Z21	.0	.0	.8	29.4	34.1	15.7	83	506		
TOT	.0	.1	4.1	71.7	99.2	24.8	81	2034		

PERIOD: (PRIMARY) 1966-1973
(COVER-ALL) 1966-1973

CHNUSL

Table 17

AREA 0008 WEST BARNED
30N 107.4E

PCT FREQ OF 31N TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS 31N-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	69 72	73 76	77 80	81 84	85 88	89 92	92	TOT	FOG	NO FOG
1-7/16	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.1	.0	6	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.1	7	.0	.2
7/8	.0	.0	.0	.0	.1	.1	.0	19	.0	.6
5	.0	.0	.0	.1	.1	.2	.0	13	.0	.4
4	.0	.0	.1	.4	.4	.2	.0	40	.0	1.2
3	.0	.0	.1	.9	1.1	.3	.0	51	.0	2.3
2	.0	.0	.3	4.6	2.3	.1	.0	35	.0	1.5
1	.0	.0	.3	4.6	2.1	.0	.0	232	.0	7.4
0	.0	.2	2.9	18.0	1.8	.0	.0	743	.1	20.9
-1	.0	.0	.4	12.7	1.4	.0	.0	445	.0	13.5
-2	.0	.4	4.1	14.0	.6	.0	.0	722	.0	21.0
-3	.0	.1	1.7	8.9	.3	.0	.0	249	.0	7.6
-4	.0	.3	3.8	9.2	.1	.0	.0	320	.1	9.3
-5	.0	.4	1.9	1.3	.1	.0	.0	119	.0	3.6
-6	.0	.1	.7	.4	.0	.0	.0	43	.0	1.3
-7/-8	.0	.2	.9	.3	.0	.0	.0	44	.0	1.4
-9/-10	.0	.1	.2	.1	.0	.0	.0	11	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	.0	4	.0	.1
TOTAL								3612		
PCT	.0	1.6	16.8	66.7	11.3	1.2	.2	100.0	.2	99.8

PERIOD: (COVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0
1-2	.0	0.9	1.0	.0	.0	.0	9.3	.0	0.6	1.2	.0	.0	.0	8.6
3-4	.0	2.6	3.0	.1	.0	.0	5.6	.0	1.6	2.1	.0	.0	.0	3.8
5-6	.0	.1	.0	.1	.0	.0	.8	.0	.0	.0	.1	.0	.0	.8
7	.0	.1	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.4	4.1	.9	.0	.0	17.1	1.5	7.0	4.1	.1	.0	.0	12.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	1.3	.1	.0	.0	.0	2.3
1-2	.0	2.3	.5	.0	.0	.0	3.1	.0	5.4	.9	.0	.0	.0	6.8
3-4	.0	1.0	.4	.0	.0	.0	1.4	.0	2.4	2.9	.2	.0	.0	5.5
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.2	.0	.1	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	1.6	.0	.0	.0	5.9	1.1	9.7	4.7	.3	.0	.0	15.7

PERIOD: (OVER-ALL) 1962-1973

ANNUAL

AREA 0009 WEST BORNHEIM
SH 107.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2	.2	.7	.0	.0	.0	.0	1.0
1-2	.5	3.7	2.0	.0	.0	.0	8.2	.5	4.3	.7	.0	.0	.0	5.3
3-4	.0	3.3	2.5	.2	.0	.0	5.8	.0	1.9	1.0	.2	.0	.0	2.1
5-6	.0	.0	.5	.0	.0	.0	1.2	.0	.2	.4	.0	.0	.0	.9
7	.0	.0	.2	.1	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.5	5.3	.2	.0	.0	16.4	.4	7.3	2.1	.2	.0	.0	10.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.8	.0	.0	.0	.0	1.1	.1	.8	.0	.0	.0	.0	1.0	
1-2	.5	2.6	.3	.0	.0	.0	3.4	.8	3.3	.6	.0	.0	.0	4.8	
3-4	.0	.2	.9	.1	.0	.0	.8	.1	.5	.8	.0	.0	.0	1.7	
5-6	.0	.1	.4	.0	.0	.0	.8	.0	.3	.2	.1	.0	.0	.6	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	3.5	1.2	.2	.0	.0	5.8	1.1	3.2	1.9	.1	.0	.0	4.2	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	12.3	7.5	.5	.0	.0	.0	20.4	
1-2	3.9	34.8	7.2	.0	.0	.0	45.0	
3-4	.2	19.5	12.8	.0	.0	.0	27.2	
5-6	.0	1.5	3.1	.0	.0	.0	3.0	
7	.0	.1	.5	.0	.0	.0	.7	
8-9	.0	.1	.5	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.5	57.5	24.8	1.0	.0	.0	100.0	1022

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.1	31.3	20.8	5.3	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1126	2
6-7	.0	4.8	5.4	2.3	1.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	4
8-9	.0	.5	1.3	.8	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	5
10-11	.0	.5	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
12-13	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	10.7	2.4	1.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	1
TOTAL PCT	18.8	37.4	29.0	10.0	3.0	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1693	2

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1859-1973

TABLE 20

AREA 0000 WEST BAY
3N 107.4E

PERCENT FREQUENCY OF OCCURRENCE OF SEA STATE (FEET) BY MONTH													
SEA STATE FEET	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
93/94	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
91/92	.0	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0
89/90	.0	.0	.2	1.2	1.0	1.7	.4	.0	.0	.0	.1	.0	.1
87/88	.3	.1	1.5	4.6	7.6	6.7	1.5	.4	.3	1.7	1.1	.2	.4
85/86	1.0	.8	9.9	23.3	32.3	25.4	13.1	8.8	4.0	13.7	12.5	4.8	2.0
83/84	9.0	12.4	31.2	41.2	45.9	45.1	47.6	36.4	41.9	46.0	45.2	26.4	12.1
81/82	40.1	48.7	41.3	21.9	12.2	12.0	21.5	45.2	43.3	32.0	34.1	40.5	35.2
79/80	31.0	29.8	16.6	6.1	.8	2.2	4.7	7.0	6.2	4.7	4.0	16.6	11.1
77/78	6.4	5.1	2.5	1.2	.6	.7	1.2	.9	1.5	1.3	1.6	1.8	2.2
75/76	1.1	2.4	.7	.2	1.1	.1	.0	.3	.5	.2	.3	.7	.7
73/74	.9	.8	.0	.1	.1	.0	.0	.1	.1	.0	.1	.1	.1
71/72	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	1014	959	979	323	541	875	967	960	1014	933	1022	1007	11248
MEAN	80.8	80.7	82.0	83.4	84.1	84.0	83.0	82.4	82.4	82.9	82.8	81.7	82.5

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL HRS
JAN	1011	1010	1011	1009	1010	1010	1010	1010	1010	425
FEB	1010	1010	1010	1009	1009	1010	1010	1010	1010	388
MAR	1010	1010	1009	1008	1008	1010	1010	1009	1010	424
APR	1009	1010	1009	1008	1008	1008	1009	1008	1009	267
MAY	1010	1009	1009	1008	1008	1009	1009	1008	1009	293
JUN	1010	1010	1009	1009	1009	1010	1009	1008	1009	289
JUL	1010	1011	1009	1009	1008	1010	1009	1010	1009	277
AUG	1010	1010	1010	1009	1008	1009	1010	1009	1009	296
SEP	1010	1010	1010	1008	1008	1009	1009	1009	1009	258
OCT	1011	1010	1009	1008	1010	1010	1010	1009	1010	293
NOV	1010	1010	1009	1008	1008	1009	1010	1008	1009	375
DEC	1011	1010	1010	1009	1010	1010	1009	1010	1010	320
ANN	1010	1010	1010	1009	1009	1010	1010	1009	1009	3305
GR	982	280	981	307	59	262	508	334		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1005	1006	1007	1009	1010	1012	1013	1014	1015
FEB	1005	1005	1006	1008	1010	1011	1013	1013	1014
MAR	1005	1005	1006	1008	1010	1011	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1012	1013	1014
MAY	1004	1005	1006	1008	1009	1010	1012	1013	1014
JUN	1005	1005	1006	1008	1009	1010	1012	1013	1014
JUL	1005	1005	1006	1008	1009	1010	1012	1012	1013
AUG	1004	1005	1006	1008	1009	1010	1012	1012	1013
SEP	1005	1005	1006	1008	1009	1010	1012	1012	1013
OCT	1005	1005	1006	1008	1009	1010	1012	1012	1013
NOV	1005	1005	1006	1008	1009	1010	1012	1013	1014
DEC	1005	1005	1006	1008	1009	1010	1012	1013	1014

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0009 KATIMATA STRAIT
1.9S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	FRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WFA
N	1.6	1.1	.0	.0	.0	.0	.0	2.7	1.6	3.2	.0	.0	.0	.0	92.4
NE	.0	4.8	.0	.0	.0	.0	.0	4.8	9.5	2.4	9.5	.0	.0	.0	73.8
E	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	16.7	.0	.0	.0	.0	75.0
SE	.0	.0	10.3	.0	.0	.0	.0	10.3	10.3	.0	.0	.0	.0	.0	79.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	14.3	.0	.0	.0	.0	.0	.0	14.3	14.3	.0	.0	.0	.0	.0	71.4
W	1.7	5.9	.0	.0	.0	.0	.0	8.6	12.0	6.8	.0	.0	.0	.0	73.1
NW	4.7	3.8	.9	.0	.0	.0	.0	9.4	3.4	3.0	2.6	.0	.0	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	91.7
TOT PCT	3.1	3.5	.8	.0	.0	.0	.0	7.4	5.0	3.9	1.6	.0	.0	.0	82.2
TOT OBS	258														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	FRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WFA
0000Z	.0	4.9	.0	.0	.0	.0	.0	4.9	13.1	3.3	.0	.0	.0	.0	78.7
0600Z	5.4	0.3	1.4	.0	.0	.0	.0	13.5	4.1	.0	2.7	.0	.0	.0	79.7
1201Z	3.1	1.5	1.5	.0	.0	.0	.0	6.2	1.5	3.3	1.5	.0	.0	.0	87.7
1802Z	3.0	1.5	3.0	.0	.0	.0	.0	7.5	1.5	9.0	1.5	.0	.0	.0	80.6
TOT PCT	3.0	3.7	1.5	.0	.0	.0	.0	8.2	4.6	3.7	1.5	.0	.0	.0	81.6
TOT OBS	267														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	10.1	5.7	.4	.0	.0		17.6	9.3		18.1	21.4	21.9	12.3	21.5	34.4	12.5	14.1
NE	.3	1.8	.4	.1	.0	.0		2.7	7.7		4.6	.0	3.6	1.9	2.0	.0	2.9	.0
E	.3	.5	.2	.0	.0	.0		1.0	5.9		.4	.0	1.1	1.2	.5	.0	1.8	.0
SE	.5	1.2	.0	.0	.0	.0		1.7	5.1		1.3	.0	1.5	3.7	.2	17.5	2.6	.7
S	.3	1.9	.2	.2	.0	.0		4.6	7.0		2.2	.0	1.3	2.5	3.3	6.3	2.2	4.9
SW	.9	2.6	.7	.2	.0	.0		4.1	6.9		2.2	21.4	4.3	8.0	1.4	18.8	3.1	3.5
W	1.3	11.4	4.8	.3	.0	.0		18.4	8.9		17.0	42.9	12.2	19.5	17.2	12.5	21.9	23.4
NW	2.3	29.0	19.7	.5	.0	.0		43.4	9.1		48.2	14.3	45.2	43.1	46.9	15.4	43.4	44.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							6.4	.0		4.4	.0	7.3	3.7	4.6	.0	9.4	7.0
TOT OBS	74	322	169	0	0	0	653		8.2		113	7	137	81	122	8	114	71
TOT PCT	14.4	59.5	25.7	1.4	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	5.3	11.3	1.0	.1	.0			17.6	9.3		18.3	18.3	22.3	13.1				
NE	1.3	1.1	.1	.0	.0			2.7	7.7		4.4	3.0	1.9	1.8				
E	.7	.3	.0	.0	.0			1.0	5.9		.8	1.1	.8	1.1				
SE	1.2	.5	.0	.0	.0			1.7	5.1		1.3	2.3	1.0	1.9				
S	1.7	.7	.0	.0	.0			2.6	7.0		2.1	1.7	3.5	3.2				
SW	2.3	1.6	.2	.0	.0			4.1	6.9		3.3	6.3	2.5	3.2				
W	6.2	10.5	1.6	.0	.0			18.4	8.9		17.4	14.6	16.9	23.2				
NW	12.8	30.9	1.6	.1	.0			43.4	9.1		48.3	48.7	43.0	43.8				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	6.4							6.4	.0		4.2	6.0	6.2	8.6				
TOT OBS	750	372	30	1	0	653			8.2		120	218	130	185				
TOT PCT	36.3	57.0	4.6	.2	.0			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0009 KARIMATA STRAIT
1.93 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
0000	4.2	10.8	60.4	24.2	0.0	0.0	0.0	7.7	100.0	120
0600	6.0	8.7	60.1	24.9	0.0	0.0	0.0	8.4	100.0	218
1200	6.2	5.6	54.6	33.1	0.0	0.0	0.0	8.5	100.0	130
1800	6.0	7.0	57.3	29.4	1.0	0.0	0.0	8.2	100.0	185
TOT	42	52	382	168	0	0	0	8.2		653
PCT	6.4	8.0	58.2	25.7	1.4	0.0	0.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN
					OBS	CLOUD COVER
N	3.0	1.0	9.3	3.0		5.4
NE	1.4	1.0	0.0	0.0		3.4
E	0.0	1.2	0.0	1.2		5.7
SE	0.0	0.0	0.0	0.0		4.4
S	0.0	0.0	1.1	0.0		3.5
SW	0.0	0.0	0.0	0.0		6.8
W	0.0	1.0	2.5	8.4		6.5
NW	4.1	7.5	20.9	15.4		5.8
VAR	0.0	0.0	0.0	0.0		0.0
CALC	0.0	1.2	4.3	1.2		5.6
TOT OBS	17	26	71	50	164	
TOT PCT	10.4	15.9	43.3	30.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH 34/8)
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3000	5000	6500	8000+	NH	45/8	TOTAL
149	299	599	999	1999	3497	4999	6499	7999		ANY	HGT	OBS
0.0	0.0	0.0	1.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	14.6	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	10.4	
0.0	0.0	1.2	4.0	8.7	1.2	0.0	0.0	0.0	0.0	0.0	32.5	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	4.9	
0.0	0.0	4.0	12.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	
0.0	0.0	7.4	7.3	15.9	1.2	1.2	0.0	0.0	0.0	0.0	71.3	164
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 34/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM) >1	>1/2	>1/4	>SUVD	>0
>6500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>2000	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>1000	14.9	17.9	18.5	18.7	19.0	19.0	19.0	19.0
>500	22.0	25.0	25.0	26.2	26.8	26.8	26.8	26.8
>300	22.0	27.4	28.0	28.0	29.2	29.2	29.2	29.2
>150	22.0	27.4	28.0	28.0	29.2	29.2	29.2	29.2
>0	22.0	27.4	28.0	28.0	29.2	29.2	29.2	29.2
TOTAL	37	46	47	48	49	49	49	49

TOTAL NUMBER OF OBS: 164

PCT FREQ NH 45/8: 70.8

TABLE 7a

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
										OBS
9.6	12.2	25.4	15.3	12.2	9.9	7.7	2.8	7.7	0.0	101

JANUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1859-1973

TABLE 8

AREA 0009 KARIMATA STRAIT
1.95 108.0E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.8	
	NO PCP	.0	.4	.0	.0	.0	.0	.0	1.2	.0	.0	1.6	
	TOT %	.0	.4	.0	.0	.0	.0	.4	1.6	.0	.0	2.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
5<10	PCP	.0	.0	.0	.0	.0	.0	.7	1.6	.0	.0	2.3	
	NO PCP	.0	.2	.0	.3	.5	.4	7.7	6.9	.0	.0	14.0	
	TOT %	3.8	.2	.0	.3	.5	.4	7.4	8.5	.0	.0	15.3	
10+	PCP	.0	.2	.2	.4	.0	.4	.4	1.5	.0	.0	3.3	
	NO PCP	14.1	3.3	2.1	3.1	1.4	1.9	12.3	32.6	.0	.0	75.0	
	TOT %	14.6	3.5	2.3	3.5	1.4	2.3	13.2	34.0	.0	.0	79.5	
TOT OBS		17.9	4.1	2.3	3.5	2.2	2.7	17.0	45.3	.0	.0	100.0	258
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.2	.0	.0	.0	.0	.2	1.7	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.0	.0	.2	1.7	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.4	.0	.0	.0	.2	.0	.1	.7	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.2	.2	.1	.7	.0	.0	1.7	
5<10	0-3	.4	.1	.0	.1	.1	.0	.2	.2	.0	.2	1.4	
	4-10	.6	.0	.0	.1	.2	.4	1.3	4.4	.0	.0	7.0	
	11-21	2.1	.0	.0	.0	.0	.2	.8	2.2	.0	.0	5.3	
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	TOT %	3.1	.1	.0	.2	.3	.6	2.6	6.9	.0	.2	13.9	
10+	0-3	.8	.0	.3	.7	.0	.6	1.7	1.4	.0	6.5	12.5	
	4-10	10.0	2.1	.8	1.4	.8	1.7	8.8	25.1	.0	.0	50.7	
	11-21	5.0	.5	.2	.0	.2	.4	2.3	10.3	.0	.0	19.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	15.8	2.6	1.6	2.2	1.0	3.0	12.9	37.0	.0	6.5	82.5	
TOT OBS		19.3	3.0	1.6	2.3	1.5	3.8	15.8	45.9	.0	6.7	100.0	416
TOT PCT													

JANUARY

PERIOD: (PRIMARY) 1918-1973
(ALL) 1859-1973AREA 000V KARIWATA STRAIT
1.9S 105.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8 AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.4	11.1	13.3	2.2	2.2	.0	.0	.0	33.3	66.7	45
06009	.0	.0	2.7	13.3	13.3	.0	2.2	.0	.0	.0	31.1	68.9	45
12015	.0	.0	.0	.0	17.8	.0	.0	.0	.0	.0	17.8	82.2	45
18021	.0	.0	2.3	4.5	15.9	4.5	.0	.0	.0	.0	27.3	72.7	44
TOT	0	0	4	13	27	3	2	0	0	0	49	130	179
PCT	.0	.0	2.2	7.3	15.1	1.7	1.1	.0	.0	.0	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	1.1	15.2	83.7	92
06009	.0	2.3	.8	.8	14.7	81.4	129
12015	.0	1.2	3.3	3.5	17.4	75.6	86
18021	.0	1.7	.0	1.7	10.2	86.4	118
TOT	0	6	3	7	60	349	425
PCT	.0	1.4	.7	1.6	14.1	82.1	100.0

TABLE 12

CUMULATIVE PCT. FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8 BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.7	16.3	18.6	65.1	45
06009	.0	4.9	19.3	14.6	65.9	41
12015	.0	.0	.0	19.5	80.5	41
18021	.0	2.3	9.3	18.6	72.1	43
TOT	0	5	19	30	119	168
PCT	.0	3.0	11.3	17.9	70.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/89	.0	.0	.0	.0	.6	2.9	.6	.0	7	4.0
80/84	.0	.0	.0	.0	.6	25.9	46.0	2.9	131	75.3
75/79	.0	.0	.0	.0	.0	3.4	13.2	4.0	36	20.7
TOTAL	0	0	0	0	2	56	104	12	174	100.0
PCT	.0	.0	.0	.0	1.1	32.2	59.8	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/89	.0	.0	.0	.0	.0	.0	.9	2.6	.0	.6
80/84	12.2	2.6	1.7	2.7	1.1	.7	11.9	35.9	.0	6.3
75/79	4.5	.7	.0	1.1	.6	.0	4.2	9.6	.0	.0
TOTAL	16.7	3.3	1.7	3.9	1.7	.7	17.0	48.1	.0	6.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	88	84	81	77	76	75	80.8	119
06009	91	89	85	82	77	75	73	81.6	217
12015	90	84	84	81	78	76	76	81.1	133
18021	87	84	83	80	77	76	75	80.3	186
TOT	91	87	85	81	77	76	73	81.0	655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.4	21.4	66.7	9.5	83	42		
06009	.0	.0	2.2	37.0	56.5	4.3	80	46		
12015	.0	.0	.0	47.7	45.5	6.8	81	44		
18021	.0	.0	.0	21.7	69.6	8.7	83	46		
TOT	0	0	2	57	106	13	82	178		

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

JANUARY

AREA 0009 KARIMATA STRAIT
1.95 108.0F

TABLE 17

PCT FREQ UP WIND TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FUG	NO FOG
7/8	.0	.0	.0	.0	.8	2	.0	.8
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.4	.0	.4	2	.0	.4
4	.0	.0	.8	.0	.0	4	.0	1.2
3	.0	.0	2.1	1.6	.0	9	.0	3.7
2	.0	.0	8.2	1.6	.0	24	.8	9.1
1	.0	.8	8.6	1.2	.0	26	.4	10.3
0	.0	7.4	16.8	.0	.0	66	.4	26.7
-1	.0	5.8	12.2	.0	.0	44	.0	18.1
-2	.0	3.7	7.4	.0	.0	27	.0	11.1
-3	.0	5.8	1.2	.0	.0	17	.0	7.0
-4	.4	2.1	1.6	.0	.0	10	.0	4.1
-5	.0	.8	.0	.0	.0	4	.0	1.6
-6	.4	1.2	.0	.0	.0	4	.0	1.6
-7/-8	.0	.8	.4	.0	.0	3	.0	1.2
TOTAL	2	89	135	4	4	243	4	239
PCT	.8	28.4	63.8	9.5	1.6	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.8	2.0	.0	.0	.0	6.6	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.6	4.0	.0	.0	.0	5.6	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.8	8.4	.0	.0	.0	16.0	.0	1.0	1.6	.0	.0	.0	2.6

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	1.6	.8	.0	.0	.0	3.2	.0	2.6	.0	.0	.0	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0009 KARIMATA STRAIT
1.9S 108.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.2	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0	.0	.2	.0	.0	.0	.0	.2	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	.0
1-2	.0	6.8	.0	.0	.0	.0	7.6	.0	22.0	4.4	.0	.0	.0	26.4	.0
3-4	.0	3.8	1.4	.0	.0	.0	5.4	.0	9.0	9.6	.0	.0	.0	18.6	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	4.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.6	3.8	.0	.0	.0	14.4	.0	32.0	18.2	.0	.0	.0	50.2	91.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	2.4	.0	.0	.0	.0	13.5	.0
1-2	.0	37.3	7.1	.0	.0	.0	44.4	.0
3-4	.0	15.9	10.7	.0	.0	.0	26.6	.0
5-6	.0	.0	7.1	.0	.0	.0	7.1	.0
7	.0	.0	1.6	.0	.0	.0	1.6	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	11.1	56.3	32.5	.0	.0	.0	100.0	126

PERIOD: (OVER-ALL) 1969-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.2	25.0	25.6	6.5	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	3
6-7	.0	3.9	7.1	10.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
8-9	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	0
PCT	13.4	24.9	35.7	16.9	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	3

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1957-1973

FEBRUARY

AREA 0009 KARIMATA STRAIT
1.95 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG MD PCPN	FGG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	4.1	.6	.0	.0	.0	.0	.0	4.7	2.1	2.1	.0	.0	.0	.0	.0	91.2	
NE	1.4	.0	5.4	.0	.0	.0	.0	6.8	1.4	1.4	.0	.0	.0	.0	.0	80.5	
E	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	77.8	
SE	13.5	.0	.0	.0	.0	.0	.0	13.5	.0	.0	.0	.0	.0	.0	.0	86.5	
S	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
W	6.3	3.7	.0	.0	.0	.0	.0	10.0	7.9	.0	.0	.0	.0	.0	.0	82.1	
NW	4.5	1.8	.0	.0	.0	.0	.0	6.3	1.3	1.1	.0	.0	.0	.0	.0	91.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	11.1	11.1	.0	.0	.0	.0	.0	22.2	.0	11.1	.0	.0	.0	.0	.0	66.7	
TOT PCT	4.9	1.7	.7	.0	.0	.0	.0	7.3	2.4	1.4	.0	.0	.0	.0	.0	88.9	
TOT OBS	287																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG MD PCPN	FGG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00003	3.7	2.5	2.5	.0	.0	.0	.0	5.6	4.9	.0	.0	.0	.0	.0	.0	86.4	
06009	12.8	2.3	.0	.0	.0	.0	.0	15.1	2.3	.0	.0	.0	.0	.0	.0	82.6	
12015	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	96.1	
18021	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.0	.0	.0	.0	.0	.0	92.0	
TOT PCT	4.8	1.7	.7	.0	.0	.0	.0	7.2	2.4	1.7	.0	.0	.0	.0	.0	88.7	
TOT OBS	293																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	2.3	17.6	5.9	.1	.0	.0	25.9	8.4	29.1	27.8	24.6	29.1	27.3	30.0	17.6	26.9	
NE	.7	3.6	1.1	.0	.0	.0	5.3	7.6	5.1	.0	8.5	3.7	4.3	.0	4.7	3.0	
E	.4	.9	.7	.0	.0	.0	1.4	5.7	1.2	.0	1.8	1.5	1.7	.0	1.8	.0	
SE	1.0	1.6	.0	.0	.0	.0	2.6	4.5	.4	22.2	4.3	3.0	3.3	.0	1.2	.0	
S	.8	2.1	.0	.0	.0	.0	2.9	4.9	3.0	.0	2.2	3.7	2.3	.0	2.4	6.1	
SW	.5	3.6	.7	.0	.0	.0	4.8	7.1	4.3	11.1	4.6	7.5	4.8	.0	1.2	7.6	
W	2.6	10.1	3.2	.2	.0	.0	16.1	7.9	13.8	11.1	15.3	11.9	12.6	40.0	27.4	17.4	
NW	1.5	24.5	6.2	.2	.0	.0	25.5	8.7	37.8	27.8	35.0	33.6	38.8	30.0	36.8	28.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.6						5.6	.0	5.5	.0	3.6	6.0	5.0	.0	7.1	10.6	
TOT OBS	99	414	131	3	0	0	647	7.6	127	9	167	67	121	5	85	68	
TOT PCT	15.3	64.0	20.2	.5	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	9.7	15.0	1.2	.0	.0	25.9	8.4	29.0	25.9	27.4	21.7		
NE	2.2	3.1	.1	.0	.0	5.3	7.6	4.8	7.2	4.2	4.0		
E	1.0	.4	.0	.0	.0	1.4	5.7	1.1	1.7	1.6	1.0		
SE	2.1	.5	.0	.0	.0	2.6	4.5	1.8	4.0	3.2	.7		
S	2.3	.6	.0	.0	.0	2.9	4.9	2.8	2.7	2.2	4.0		
SW	7.7	2.0	.2	.0	.0	4.8	7.1	4.8	5.4	4.6	4.0		
W	7.5	7.5	.9	.2	.0	16.1	7.9	13.6	14.3	13.7	23.0		
NW	12.9	71.3	1.4	.0	.0	35.5	8.7	36.9	34.6	38.5	33.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.6					5.6	.0	5.1	4.3	4.8	8.6		
TOT OBS	297	325	24	1	0	647	7.6	136	234	126	151		
TOT PCT	45.9	50.2	3.7	.2	.0	100.0		100.0	100.0	100.0	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1837-1973

AREA 0009 KARIMATA STRAIT
1.95 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.1	8.8	87.6	18.4	.0	.0	.0	7.5	100.0	136
04009	4.3	10.3	63.0	19.7	.9	.0	.0	7.7	100.0	234
12015	4.8	9.5	64.3	21.4	.0	.0	.0	7.5	100.0	126
18021	8.6	9.9	58.9	21.9	.7	.0	.0	7.5	100.0	191
TOT	36	63	414	131	3	0	0	7.6		647
PCT	5.6	9.7	64.0	20.2	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL PMS	MEAN CLOUD COVER
N	3.3	7.1	14.0	5.7		5.3
NE	.6	1.7	3.2	1.5		5.4
E	.0	.4	.4	.4		5.2
SE	.0	.0	.0	1.9		8.7
S	.4	.4	.0	1.0		5.2
SW	.1	.1	.1	1.3		5.7
W	1.2	2.6	8.6	4.8		6.0
NH	4.2	4.4	19.6	6.0		4.9
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	2.9	.6		6.0
TOT LBS	16	30	84	40	172	5.6
TOT PCT	10.5	17.4	48.8	23.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	292	592	992	1992	3492	4992	6492	7992		ANY HGT	OBS
.0	.0	.4	3.8	3.1	1.0	.4	.0	.0	.0	.0	21.4
.0	.0	.0	.9	1.3	.0	.1	.0	.0	.0	.0	4.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
.0	.0	.0	.0	.1	.7	.0	.0	.0	.0	.0	.0
.0	.0	.0	2.2	2.2	2.3	.6	.0	.6	.0	.6	9.3
.0	.0	.1	.1	5.5	1.7	.0	.0	.0	.6	.6	26.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	.6	2.9
.0	.0	.2	.14	.21	.10	.2	.0	.1	.2	.2	172
.0	.0	1.2	8.1	12.2	5.8	1.2	.0	.6	1.2	69.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>5000	.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>3500	1.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>2000	6.4	8.7	8.7	8.7	8.7	8.7	8.7	8.7
>1000	17.4	20.4	20.9	20.4	20.4	20.4	20.4	20.9
>600	22.7	28.5	28.5	28.5	28.5	28.5	28.5	28.5
>300	23.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7
>150	23.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7
>0	23.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7
TOTAL	40	51	51	51	51	51	51	51

TOTAL NUMBER OF OBS 172

PCT FREQ NH <5/8 70.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.5	16.3	19.5	20.0	12.6	8.4	10.5	5.8	6.3	.0	190

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1897-1973

FEBRUARY

AREA 0009 KARIMATA STRAIT
1.95- 108.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.4	.0	.0	.7	.0	.4	.7	.4	.0	.4	3.9	
	TOT %	1.4	.0	.0	.7	.0	.4	.7	.4	.0	.4	3.9	
5<10	PCP	1.4	.1	.0	.0	.0	1.3	1.8	.0	.7	5.3		
	NO PCP	4.5	1.6	.4	.4	2.3	4.2	3.7	.0	.4	17.9		
	TOT %	5.9	1.9	.4	.4	2.3	5.5	5.4	.0	1.1	23.2		
10+	PCP	.0	.0	.4	.4	.3	.0	.4	.4	.0	.0	1.8	
	NO PCP	23.1	4.2	1.3	1.3	2.1	13.1	27.1	.0	1.3	71.2		
	TOT %	23.1	4.2	1.3	1.3	2.1	13.1	27.5	.0	1.3	73.0		
TOT OBS													285
TOT PCT													29.4 6.1 1.6 3.2 1.8 4.7 16.7 33.2 .0 3.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.5	.0	.2	.0	.2	.0	.2	1.2	
	4-10	1.2	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.6	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.1	.1	.5	.0	.2	.5	.2	.0	.2	3.0	
5<10	0-3	.2	.2	.0	.2	.2	.0	.3	.4	.0	1.2	2.8	
	4-10	3.1	.7	.2	.0	.5	1.2	2.0	3.7	.0	.0	10.9	
	11-21	.8	.3	.0	.0	.0	.3	1.7	1.0	.0	.0	4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	4.1	1.3	.2	.2	.7	1.5	4.0	4.6	.0	1.2	17.8	
10+	0-3	2.6	.6	.6	.5	.2	.2	1.7	.9	.0	5.1	12.5	
	4-10	15.2	3.2	.6	2.1	1.3	1.6	4.9	20.5	.0	.0	49.5	
	11-21	5.4	.9	.1	.0	.0	.5	2.4	6.7	.0	.0	16.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
	TOT %	23.5	4.7	1.3	2.6	1.6	2.3	9.0	28.4	.0	5.1	78.5	
TOT OBS													432
TOT PCT													29.0 6.1 1.6 3.5 2.3 4.1 13.5 33.4 .0 6.5 100.0

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1957-1973

FEBRUARY

AREA 0009 KARIKATA STRAIT
1.95 108.0E

TABLE 10

PERCENT FREQUENCY OF CRICING HEIGHTS (FEET) NM >4/6) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	140 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	9.8	15.7	7.8	3.9	.0	.0	3.9	41.2	58.8	51
06009	.0	.0	3.0	7.3	9.1	3.6	.0	.0	1.8	.0	25.5	74.5	55
12015	.0	.0	.0	8.7	6.5	4.3	.0	.0	.0	.0	19.6	80.4	46
18021	.0	.0	.0	3.2	16.1	6.5	.0	.0	.0	.0	25.8	74.2	31
TOT PCT	0 .0	0 .0	2 1.1	14 7.7	21 11.5	10 5.5	2 1.1	0 .0	1 .5	2 1.1	52 28.4	131 71.6	183 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.0	.0	2.8	20.4	75.9	108
06009	.0	.0	.0	1.4	20.4	78.2	142
12015	.0	.0	.0	7.1	13.3	78.6	98
18021	.0	.0	1.1	1.1	14.6	92.2	90
TOT PCT	1 .2	0 .0	2 .4	13 3.0	78 17.8	344 78.5	436 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/6) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	8.3	23.3	58.3	48
06009	.0	.0	12.0	16.0	72.0	50
12015	.0	.0	11.0	11.0	76.7	43
18021	.0	.0	3.2	22.6	74.2	31
TOT PCT	0 .0	2 1.2	16 4.3	36 20.9	120 69.8	172 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.9	2.3	1.4	.5	15	7.0
80/84	.0	.0	.0	.0	1.4	26.5	40.5	7.4	184	78.3
75/79	.0	.0	.0	.0	.0	9	10.7	5.1	36	16.7
TOTAL	0	0	0	0	7	66	113	29	215	100.0
PCT	.0	.0	.0	.0	3.3	30.7	52.6	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.6	.8	.7	.0	.8	.0	.9	1.0	.0	.5	
26.4	3.7	.2	.9	.9	2.4	9.2	27.7	.0	2.8	
2.5	1.0	1.2	.6	.7	.5	3.5	4.0	.0	.5	
30.9	7.6	2.1	1.5	2.4	3.5	15.6	32.7	.0	3.7	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	84	81	78	76	75	80.9	133
06009	92	91	87	82	78	75	71	82.3	233
12015	89	88	85	81	78	76	76	81.5	127
18021	84	83	82	80	78	76	75	80.3	150
TOT	92	89	86	81	78	76	71	81.4	643

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	20.7	85.5	13.8	84	58		
06009	.0	.0	9.0	43.3	31.3	16.4	80	67		
12015	.0	.0	1.9	34.0	56.6	7.5	52	53		
18021	.0	.0	.0	20.0	65.0	15.0	84	40		
TOT	0	0	7	67	115	29	82	218		

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

FEBRUARY

TABLE 17

AREA 0009 NARIMATA STRAIT
1.05 10A.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	83 88	89 92	TOT	% FOG	40 FOG
9/10	.0	.0	.0	.4	1.7	5	.0	2.2
7/5	.0	.0	.0	.4	.4	2	.0	.9
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.9	.4	3	.0	1.3
4	.0	.0	.4	1.3	.4	5	.0	2.2
3	.0	.0	.4	.9	.0	3	.0	1.3
2	.0	.4	4.3	.9	.0	13	.0	5.6
1	.4	.4	7.4	1.3	.0	22	.0	9.5
0	.0	6.1	20.3	.4	.0	62	.0	26.8
-1	.4	4.8	14.7	.9	.0	48	.0	20.8
-2	.0	5.6	9.5	.4	.0	36	.0	15.5
-3	.0	4.3	1.7	.0	.0	14	.0	6.1
-4	.0	2.2	1.7	.0	.0	9	.0	3.9
-5	.0	.0	.4	.0	.0	1	.0	.4
-6	.4	2.2	.0	.0	.0	6	.0	2.6
-7/-6	.0	.4	.0	.0	.0	1	.0	.4
TOTAL		61		18		231		231
PCT	3	141	5	231		100.0		100.0
	1.5	25.4	61.0	7.8	3.5			

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	1.1	.6	.0	.0	.0	2.4	.0	.4	.2	.0	.0	.0	.4
1-2	1.1	11.8	.7	.0	.0	.0	13.6	.0	3.9	.7	.0	.0	.0	4.6
3-4	.0	7.9	9.5	.0	.0	.0	13.4	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	20.8	9.4	.0	.0	.0	32.0	.0	5.1	.7	.0	.0	.0	6.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0000 KARIMATA STRAIT
1.95 108.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.7	.0	.0	.0	.7	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.9	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	.7	.9	.0	.0	.0	1.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	1.1	.6	.0	.0	.0	.0	1.7	.2	1.1	.0	.0	.0	.0	1.3	
1-2	.7	4.0	1.5	.0	.0	.0	6.3	1.1	16.4	2.9	.0	.0	.0	20.4	
3-4	.0	2.6	2.8	.0	.0	.0	5.3	.0	2.4	9.2	.0	.0	.0	11.6	
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	1.7	.7	.0	.0	2.4	
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	7.2	7.4	.0	.0	.0	16.4	1.3	19.9	15.3	.7	.0	.0	37.1	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.6	2.9	.7	.0	.0	.0	10.2	137
1-2	2.9	36.7	6.0	.0	.0	.0	45.2	
3-4	.0	14.6	17.5	.0	.0	.0	32.1	
5-6	.0	.0	6.0	.7	.0	.0	7.3	
7	.0	.0	2.2	.0	.0	.0	2.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	56.2	33.6	.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.7	31.0	23.1	4.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	2
6-7	.0	4.2	4.8	4.2	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
8-9	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
10-11	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDEX	4.8	1.2	4.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	2
TOTAL	21	64	58	16	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	168	3
PCT	12.5	38.1	34.3	9.5	4.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

MARCH

AREA 0009 KARIYATA STRAIT
1.93 108.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	MRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLVG DUST	NO SIG WEA
N	3.6	3.6	.0	.0	.0	.0	.0	7.2	.0	2.5	.0	.0	.0	.0	90.3
NE	8.7	2.9	.0	.0	.0	.0	.0	11.6	.0	.0	.0	.0	.0	.0	88.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	7.4	3.6	.0	.0	.0	.0	.0	13.0	.0	7.4	.0	.0	.0	.0	87.0
SW	6.3	4.0	.0	.0	.0	.0	.0	10.3	4.0	4.0	.0	.0	.0	3.2	78.6
W	1.5	5.7	.0	.0	.0	.0	.0	7.3	2.7	2.7	.0	.0	.0	.0	87.4
NW	5.0	.3	1.3	.0	.0	.0	.0	6.6	2.5	1.6	.0	.0	.0	.0	89.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	97.0
TOT PCT	3.7	2.8	.3	.0	.0	.0	.0	6.3	1.5	2.5	.0	.0	.0	.3	89.2
TOT OBS:	323														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	MRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLVG DUST	NO SIG WEA
0000	6.7	4.4	.0	.0	.0	.0	.0	11.1	2.2	.0	.0	.0	.0	.0	86.7
0600	2.2	3.3	1.1	.0	.0	.0	.0	6.7	1.1	.0	.0	.0	.0	.0	92.2
1200	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.8	.0	.0	.0	.0	92.8
1800	6.4	2.6	1.3	.0	.0	.0	.0	10.3	.0	7.7	.0	.0	.0	1.3	82.1
TOT PCT	3.8	2.6	.6	.0	.0	.0	.0	7.0	1.5	2.9	.0	.0	.0	.3	88.6
TOT OBS:	341														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	3.7	14.3	3.7	.0	.1	.0		20.8	6.9		19.2	30.8	24.0	21.0	24.3	11.1	16.7	13.9
NE	1.7	2.4	.2	.0	.0	.0		4.3	3.2		3.0	15.4	4.9	5.1	6.3	5.6	2.3	1.8
E	1.8	1.8	.5	.0	.0	.0		4.1	3.5		4.9	.0	4.8	7.2	3.2	.0	2.3	3.7
SE	.5	1.1	.1	.0	.0	.0		1.7	6.3		1.1	.0	1.0	3.6	.7	.0	.2	6.7
S	1.7	2.6	.3	.0	.0	.0		4.7	5.2		3.9	.0	4.5	3.6	6.5	.0	2.6	6.7
SW	1.4	6.4	1.4	.1	.0	.0		9.3	7.0		5.8	11.5	10.1	10.9	11.4	27.2	7.7	8.5
W	3.4	12.8	2.0	.1	.0	.0		18.2	8.8		15.5	19.2	18.7	15.8	15.7	44.4	18.0	22.0
NW	4.0	16.5	3.9	.1	.0	.0		24.6	7.6		25.1	23.1	24.4	23.4	19.6	16.7	29.3	20.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.2							12.2	.0		14.5	.0	.0	.0	.0	.0	.0	.0
TOT OBS	222	422	82	2	1	0	729				133	13	178	69	119	6	19.8	14.6
TOT PCT	35.5	57.9	11.2	.3	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	09	12	18
N	11.0	9.7	.1	.1	.0		20.8	6.7	20.2	23.2	23.4	16.3	
NE	3.0	1.3	.0	.0	.0		4.3	3.2	4.1	5.0	6.3	2.1	
E	2.9	1.0	.1	.0	.0		4.1	3.5	4.3	5.5	3.0	2.8	
SE	.9	.8	.0	.0	.0		1.7	6.3	1.0	1.7	.7	3.1	
S	3.3	1.3	.0	.0	.0		4.7	5.2	3.6	4.3	6.1	4.9	
SW	5.1	4.1	.1	.0	.0		9.3	7.0	8.3	10.3	12.4	8.0	
W	10.2	7.4	.6	.0	.0		18.2	8.8	18.7	17.3	17.5	19.7	
NW	11.2	12.4	1.0	.1	.0		24.6	7.6	28.6	24.7	19.1	23.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	12.2						12.2	.0	13.0	8.1	11.2	17.6	
TOT OBS	497	277	14	1	0	729			148	247	143	193	
TOT PCT	59.9	38.0	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

MARCH

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	13.0	17.8	39.0	9.6	.0	.0	.0	6.1	100.0	146
0600	8.1	17.4	37.1	18.6	.4	.4	.0	8.6	100.0	247
1200	11.7	21.0	38.0	9.8	.0	.0	.0	5.6	100.0	143
1800	17.6	17.6	37.5	6.7	.5	.0	.0	5.3	100.0	193
TOT	89	133	422	82	2	1	0	6.0		720
PCT	12.2	18.2	57.9	11.2	.3	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & MECSD	TOTAL OBS	MEAN CLOUD COVER
N	5.0	3.7	13.4	2.8		5.0
NE	.7	.8	1.7	1.1		5.4
E	1.1	.5	1.2	.4		4.2
SE	.0	.0	.3	.0		5.9
S	.0	.3	2.0	1.4		6.6
SW	.0	.3	3.4	3.4		7.2
W	1.8	3.8	8.0	3.9		5.6
NW	.9	0.1	12.6	6.4		5.6
VAR	.0	.0	.0	.0		.0
CALM	3.2	1.1	3.2	2.6		4.5
TOT OBS	24	37	87	42	190	5.4
TOT PCT	12.6	19.5	45.8	22.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	2.1	1.7	1.8	.5	.0	.0	.0	10.7
NE	.0	.0	.0	.3	.5	.0	.5	.0	.0	.0	.5	2.4
E	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.0	2.0
SE	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
S	.0	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	2.8
SW	.0	.0	.0	.1	2.1	.7	.5	.0	.0	.0	.0	3.7
W	.0	.0	.4	1.6	2.4	2.2	.5	.0	.0	.0	.0	10.5
NW	.0	.0	.7	2.1	5.5	2.2	.8	.0	.0	.0	.0	17.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	2.1	1.6	.0	.0	.0	.0	.0	.0	6.3
TOT OBS	0	0	2	14	28	14	8	1	0	1	1	122
TOT PCT	.0	.0	1.1	7.4	14.7	7.4	4.2	.5	.0	.5	.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	• OR >10	• OR >5	• OR >2	VSBY (NM) • OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
• OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
• OR >3500	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
• OR >2000	12.1	12.6	13.1	13.1	13.1	13.1	13.1	13.1
• OR >1000	25.1	27.1	28.1	28.1	28.1	28.1	28.1	28.1
• OR >600	30.7	33.7	34.7	34.7	34.7	35.2	35.2	35.2
• OR >300	31.7	34.7	35.7	35.7	35.7	36.2	36.2	36.2
• OR >150	31.7	34.7	35.7	35.7	35.7	36.2	36.2	36.2
• OR >0	31.7	34.7	35.7	35.7	35.7	36.2	36.2	36.2
TOTAL	63	69	71	71	71	72	72	72

TOTAL NUMBER OF OBS: 199

PCT FREQ NH <5/8: 63.6

TABLE 7A

PERCENTAGE FREQ OF CUM CLOUDS (HEIGHTS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	19.3	17.5	20.3	10.6	11.1	10.1	2.8	7.7	.0		217

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1957-1973

MARCH

AREA 0009 KARIMATA STRAIT
1.95 106.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.1	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.1	.1	.5	.0	.0	.0	.6	.9	.0	.0	1.9	
	TOT %	.1	.1	.5	.0	.0	.0	.9	.9	.0	.0	2.2	
><10	PCP	.0	.2	.0	.0	.5	.4	.3	.0	.0	.0	2.5	
	NO PCP	1.2	.0	.5	.3	3.2	3.2	4.2	3.0	.0	2.9	17.4	
	TOT %	2.6	.2	.5	.3	3.7	3.6	4.5	3.3	.0	2.9	19.9	
10+	PCP	.0	.5	.0	.0	.0	.4	.5	1.3	.0	.0	3.4	
	NO PCP	17.9	3.9	2.0	.9	2.5	5.6	14.1	19.7	.0	7.5	73.9	
	TOT %	18.9	4.4	2.0	.9	2.5	6.0	14.6	21.0	.0	7.5	77.3	
TOT OBS													
TOT PCT		21.5	5.4	3.0	1.2	4.2	9.9	20.3	24.7	.0	4.4	100.0	322

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1<2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.2	.0	.0	.0	.1	.1	.6	.0	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.4	.0	.1	.1	.6	.2	.0	.0	1.7	
><10	0-3	.4	.5	.2	.1	.1	.4	.4	.5	.0	1.9	4.6	
	4-10	1.5	.3	.1	.1	.7	1.5	2.1	2.4	.0	.0	8.9	
	11-21	.2	.0	.0	.0	.3	.7	.8	.2	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.2	.8	.3	.2	1.2	2.7	3.2	3.1	.0	1.9	15.6	
10+	0-3	3.0	1.4	.8	.1	.8	.6	3.6	3.3	.0	9.5	23.2	
	4-10	13.6	2.9	1.4	.7	1.2	4.6	10.4	15.8	.0	.0	40.4	
	11-21	2.4	.3	.0	.2	.1	.7	.8	3.2	.0	.0	7.8	
	22+	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.4	
	TOT %	19.0	4.4	2.2	1.0	2.1	6.1	15.0	22.5	.0	9.5	81.9	
TOT OBS													
TOT PCT		21.6	5.5	2.9	1.2	3.4	9.0	19.0	26.1	.0	11.4	100.0	474

MARCH

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	1.8	12.5	8.9	7.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.1	67.9	56
06009	.0	.0	.0	1.8	3.5	17.5	8.8	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38.6	61.4	97
12015	.0	.0	.0	.0	7.5	15.1	5.7	3.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.0	66.0	93
18021	.0	.0	.0	.0	2.0	14.0	8.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.0	72.0	90
TOT	0	0	2	14	30	16	8	1	0	1	72	144	216														
PCT	.0	.0	.9	6.5	13.9	7.4	3.7	.5	.0	.5	33.3	66.7	100.0														

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.8	.0	.9	.8	16.8	80.7	119
06009	.0	.0	.0	.7	13.8	95.5	139
12015	.0	.9	.9	5.5	12.8	79.8	109
18021	.0	.0	.7	.8	20.6	78.6	126
TOT	1	1	2	9	79	400	492
PCT	.2	.2	.4	1.8	16.1	81.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.6	16.4	16.4	67.3	59
06009	.0	2.0	9.0	34.0	96.0	90
12015	.0	.0	10.4	29.2	60.4	48
18021	.0	.0	2.2	28.3	69.6	46
TOT	0	3	19	94	126	199
PCT	.0	1.5	9.5	27.1	63.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
85/89	.0	.0	.0	.0	1.4	4.6	1.4	.0	18	7.4
80/84	.0	.0	.0	.0	.5	24.9	52.5	7.8	186	85.7
75/79	.0	.0	.0	.0	.0	.5	3.7	2.3	14	6.5
TOTAL	0	0	0	0	4	86	125	22	217	100.0
PCT	.0	.0	.0	.0	1.8	39.4	57.6	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0
85/89	2.8	.5	.3	.1	.0	.0	.0	2.9	.0	.5
80/84	19.1	4.7	2.1	.9	4.0	9.3	15.3	20.4	.0	10.1
75/79	.5	.0	.2	.2	.0	.0	3.2	2.3	.0	.0
TOT	22.7	5.2	2.6	.9	4.0	9.3	18.9	25.7	.0	10.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	86	84	81	79	74	73	81.3	149
06009	91	90	88	83	79	77	73	82.9	246
12015	91	90	85	82	79	77	75	82.0	146
18021	90	87	84	81	78	76	76	81.2	194
TOT	91	90	86	82	78	76	73	81.9	735

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	20.7	67.2	12.1	84	58		58
06009	.0	.0	6.5	48.4	35.5	9.7	79	62		62
12015	.0	.0	2.0	25.0	58.0	12.0	93	30		30
18021	.0	.0	.0	19.3	75.4	5.3	84	37		37
TOT	0	0	0	67	133	22	82	227		227

PERIOD: (PRI/ALL) 1917-1973
(OVER-ALL) 1917-1973

MARCH

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	% FOG	% FOG
7/8	.0	.0	.0	.4	.4	2	.0	.7
6	.0	.0	.4	.4	.7	4	.0	1.4
5	.0	.0	.0	1.1	.4	4	.0	1.4
4	.0	.0	.7	1.1	.0	5	.0	1.6
3	.0	.0	4.1	1.1	.0	9	.0	3.2
2	.0	.0	4.2	1.1	.0	15	.0	5.3
1	.0	.7	6.0	.7	.0	21	.0	7.4
0	.0	.0	18.0	1.1	.0	54	.0	19.1
-1	.0	3.9	14.5	.7	.0	54	.0	19.1
-2	.0	4.9	18.0	.0	.0	65	.0	23.0
-3	.0	4.6	4.2	.0	.0	25	.0	8.8
-4	.7	1.8	3.8	.0	.0	18	.0	6.4
-5	.4	.7	.0	.0	.0	3	.0	1.1
-6	.0	1.1	.4	.0	.0	4	.0	1.4
TOTAL	3	50	205	21	4	283	.0	283
PCT	1.1	17.7	72.4	7.4	1.4	100.0	100.0	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	.7	.0	.0	.0	.0	.7
1-2	.7	15.1	1.7	.0	.0	.0	17.5	.7	2.0	.0	.0	.0	.0	2.9
3-4	.0	3.7	4.2	.0	.0	.0	7.9	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	20.6	5.9	.0	.0	.0	27.2	.7	2.8	.9	.0	.0	.0	4.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.5	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	.6	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 18 (CONT)

AREA 0009 KARIMATA STRAIT
1.05 108.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	.0	.0	.0	.0	.0	1.5	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	1.3	.6	.0	.0	.0	1.6	.0	4.0	.9	.0	.0	.0	5.0
3-4	.0	.7	.0	.0	.0	.0	.7	.0	1.7	.7	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	2.0	.6	.0	.0	.0	4.0	.0	7.4	1.7	.0	.0	.0	9.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.2	.0	.0	.0	.0	2.2	.0	2.4	.0	.0	.0	.0	.0	2.6
1-2	1.3	5.3	.6	.0	.0	.0	7.2	.0	9.9	4.2	.0	.0	.0	.0	15.1
3-4	.0	7.0	1.5	.0	.0	.0	8.5	.0	3.1	3.1	.7	.0	.0	.0	7.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.5
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	14.3	2.6	.0	.0	.0	19.1	1.1	16.2	8.1	.7	.0	.0	26.1	91.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TGT
<1	12.9	8.6	.0	.0	.0	.0	21.4	140
1-2	4.3	37.9	7.9	.0	.0	.0	50.0	
3-4	.0	15.7	10.0	.7	.0	.0	26.4	
5-6	.0	.7	.7	.0	.0	.0	1.4	
7	.0	.0	.7	.0	.0	.0	.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.1	62.9	19.3	.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.6	37.1	16.0	4.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	?
6-7	.0	3.4	5.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	?
8-9	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	?
10-11	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	?
12-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	?
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	?
MEAN HGT	12.6	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	0
TOTAL	44	75	43	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175	2
PCT	25.1	42.9	24.6	6.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1969-1972
(OVER-ALL) 1957-1972

APRIL

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SLR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG VT PCPN	FGG WD PCPN	SNOKE MAZE	SPRAY BLWG DUST	NO SIG WFA
N	5.4	.0	.0	.0	.0	.0	.0	5.4	4.3	10.9	.0	.0	.0	.0	81.5
NE	7.4	4.3	.0	.0	.0	.0	.0	11.7	.0	10.6	.0	.0	.0	.0	79.8
E	2.5	1.9	1.9	.0	.0	.0	.0	6.2	2.5	9.9	.0	.0	.0	.0	83.9
SE	6.4	.5	.5	.0	.0	.0	.0	7.5	7.0	4.3	.0	.0	2.1	.0	79.1
S	6.5	4.3	.0	.0	.0	.0	.0	10.6	3.2	8.6	.0	.0	.0	.0	77.4
SW	2.7	10.7	5.3	.0	.0	.0	.0	16.7	5.3	.0	.0	.0	.0	.0	76.0
W	5.9	5.2	.0	.0	.0	.0	.0	11.1	5.9	5.2	.0	1.5	.0	.0	76.3
NW	13.0	4.1	.0	.0	.0	.0	.0	17.1	.0	13.8	3.3	1.6	.0	.0	67.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.5	11.1	.0	.0	.0	.0	86.1
TOT PCT	5.4	2.9	.7	.0	.0	.0	.0	9.1	3.6	8.3	.4	.4	.4	.0	79.0
TOT OBS:	276														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG VT PCPN	FGG WD PCPN	SNOKE MAZE	SPRAY BLWG DUST	NO SIG WFA
0000	6.6	3.9	.0	.0	.0	.0	.0	10.5	3.9	5.3	1.3	.0	.0	.0	80.3
0600	5.2	1.3	1.3	.0	.0	.0	.0	7.8	3.9	.0	1.3	1.3	.0	.0	85.7
1200	1.4	1.4	.0	.0	.0	.0	.0	2.9	1.4	11.6	.0	.0	1.4	.0	84.1
1800	5.8	4.1	1.4	.0	.0	.0	.0	12.2	4.1	18.9	.0	.0	.0	.0	66.2
TOT PCT	5.1	2.7	.7	.0	.0	.0	.0	6.4	3.4	8.8	.7	.3	.3	.0	79.1
TOT OBS:	296														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.5	6.1	.2	.1	.0	.0		9.0	6.0	4.3	12.5	13.0	10.7	6.7	.0	6.9	10.4	
NE	2.2	5.7	.4	.0	.0	.0		8.4	5.3	10.6	8.3	9.2	13.6	6.1	.0	5.7	4.6	
E	3.4	7.2	.9	.1	.0	.0		11.5	5.9	16.9	8.3	14.8	10.0	7.2	.0	10.0	4.9	
SE	2.3	11.0	1.1	.0	.0	.0		14.5	6.5	17.5	20.8	9.9	12.9	13.3	15.0	18.8	19.4	
S	3.5	5.7	.1	.0	.0	.0		9.3	4.8	7.9	4.2	6.1	11.4	9.1	25.0	13.6	12.5	
SW	2.7	6.1	.8	.0	.0	.0		9.6	5.9	7.5	4.2	8.4	13.6	8.7	15.0	10.2	13.9	
W	1.5	7.8	1.1	.0	.1	.0		10.5	6.9	7.5	20.8	10.7	12.9	16.1	20.0	6.9	5.6	
NW	2.9	6.2	1.0	.3	.0	.0		10.4	6.4	8.3	20.8	11.3	9.3	12.0	15.0	9.8	9.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	16.9							16.9	.0	19.5	.0	16.7	5.7	20.9	10.0	19.0	18.1	
TOT OBS	276	407	41	4	1	0	729			123	12	222	70	115	10	105	72	
TOT PCT	37.9	55.8	5.4	.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	5.3	3.5	.1	.0	.0	.0	9.0	6.0	5.0	12.4	6.2	8.3		
NE	6.3	2.1	.0	.0	.0	.0	8.4	5.3	10.4	10.3	5.6	5.6		
E	7.9	3.2	.4	.0	.0	.0	11.5	5.9	16.1	13.6	6.6	7.9		
SE	8.4	6.0	.0	.0	.0	.0	14.5	6.5	17.8	10.6	12.4	19.1		
S	7.2	2.0	.1	.0	.0	.0	9.3	4.8	7.6	7.4	16.4	13.1		
SW	6.5	2.8	.3	.0	.0	.0	9.6	5.5	7.2	9.7	9.2	11.7		
W	6.6	3.5	.3	.0	.1	.0	10.5	6.9	8.7	11.2	16.4	6.4		
NW	7.0	2.9	.3	.1	.0	.0	10.4	6.4	9.4	10.8	12.2	9.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	16.9						16.9	.0	17.8	14.0	20.0	18.6		
TOT OBS	525	190	12	1	1	729		5.7	135	292	125	177		
TOT PCT	72.0	26.1	1.6	.1	.1		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

APRIL

AREA 0009 KARIMATA STRAIT
1.95 106.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	17.8	20.0	57.0	5.2	.0	.0	.0	4.9	100.0	135	
06009	14.0	19.9	58.2	6.5	1.0	.3	.0	5.5	100.0	292	
12015	20.0	25.6	51.2	3.2	.0	.0	.0	4.4	100.0	125	
18021	18.6	20.3	54.2	6.2	.0	.0	.0	4.8	100.0	177	
TOT	123	153	407	41	4	1	0	5.0		729	
PCT	16.9	21.0	55.8	5.6	.5	.1	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	.0	2.3	4.0	2.3		5.9
NE	.0	1.0	3.5	1.4		5.4
E	1.1	3.9	10.1	1.8		5.5
SE	.0	9.0	7.0	2.9		5.5
S	1.7	1.4	2.6	.8		4.7
SW	1.2	2.3	.7	2.3		3.1
W	1.0	2.5	5.2	4.3		5.8
NA	.5	2.8	4.4	2.3		5.3
VAR	.0	.0	.0	.0		.0
CALM	3.9	2.8	6.1	2.8		4.6
TOT LBS	19	45	79	38	181	5.3
TOT PCT	10.5	24.7	43.6	21.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	100	300	600	1000	2000	3000	5000	6000	8000+	NH <5/8	TOTAL
149	294	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.6	2.5	.0	.4	.0	.0	.0	5.2
NE	.0	.0	.0	.0	.1	.6	.0	.6	.0	.0	6.1
E	.0	.0	1.0	.0	1.0	1.5	.0	.0	.0	.0	13.4
SE	.0	.0	.1	1.2	.8	.8	.0	.0	.0	.0	12.4
S	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	5.2
SW	.0	.0	.0	.0	1.7	.6	.0	.0	.0	.0	4.4
W	.0	.4	1.5	.6	.7	1.0	.0	.0	.0	.0	8.7
NA	.0	.6	.1	.6	1.7	.1	.7	.0	.0	.0	6.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	1.7	.6	.0	.0	.6	.6	.0	12.2
TOT LBS	0	2	5	9	17	9	2	2	1	134	181
TOT PCT	.0	1.1	2.8	5.0	9.4	5.0	1.1	1.1	.6	.0	74.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM)				OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >5000	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >3500	2.1	2.1	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
OR >2000	6.2	6.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
OR >1000	12.9	12.9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
OR >600	16.5	16.5	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
OR >300	18.0	18.0	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
OR >150	19.1	19.1	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
OR >0	19.1	19.1	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
TOTAL	37	43	48	48	48	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 190

PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF CUM CLOUDS (HEIGHTS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	14.1	23.3	19.4	13.6	2.4	8.7	5.3	9.7	.0	200

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1897-1972

APRIL

AREA-0009 KARIMATA STRAIT
1.95 108.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
2<5	PCP	.0	.0	.0	.0	.0	.4	.4	.4	.0	.0	.0	1.1
	NO PCP	.0	.4	.4	.0	.0	.0	.7	.0	.0	.4	.4	1.8
	TOT %	.0	.4	.4	.0	.0	.4	1.1	.4	.0	.4	.4	2.9
5<10	PCP	.2	.6	.4	.4	.7	.4	.0	.4	.0	.0	.0	3.3
	NO PCP	.4	.7	2.2	3.8	1.2	.8	1.4	1.6	.0	1.4	1.4	13.4
	TOT %	.6	1.3	2.6	4.2	1.9	1.0	1.4	2.0	.0	1.4	1.4	16.7
10+	PCP	.2	.7	.9	.4	.2	.6	1.0	1.2	.0	.0	.0	4.7
	NO PCP	7.5	9.7	11.1	11.5	6.3	4.9	8.7	7.6	.0	11.2	11.2	74.6
	TOT %	7.7	9.9	11.7	12.4	6.5	5.4	9.7	8.8	.0	11.2	11.2	79.3
TOT OBS		8.3	8.5	14.6	16.5	8.4	6.8	12.2	11.1	.0	13.0	100.0	278
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.5
	4-10	.0	.5	.0	.0	.0	.0	.1	.1	.0	.0	.0	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.5	.0	.3	.2	.0	.1	.1	.0	.0	.0	1.2
2<5	0-3	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.7
	4-10	.0	.2	.0	.1	.1	.2	.2	.2	.0	.0	.0	1.2
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.2	.1	.1	.2	.7	.2	.0	.0	.0	2.2
5<10	0-3	.2	.5	.2	.4	.7	.4	.0	.2	.0	1.2	.0	3.9
	4-10	.3	.9	1.5	2.1	.7	.7	1.1	1.3	.0	.0	.0	9.3
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	1.3	1.7	2.3	1.4	1.0	1.1	1.5	.0	1.2	.0	13.4
10+	0-3	2.8	1.5	2.6	1.6	2.2	2.3	.4	2.4	.0	14.2	.0	30.1
	4-10	4.2	4.4	6.1	10.3	6.8	4.3	7.3	4.9	.0	.0	.0	48.2
	11-21	.3	.1	1.2	.6	.1	.4	1.2	1.0	.0	.0	.0	4.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	7.3	6.1	9.8	12.4	9.2	7.2	9.0	8.0	.0	14.2	.0	83.1
TOT OBS		7.8	8.1	11.8	16.4	10.9	8.5	10.9	10.0	.0	15.6	100.0	409
TOT PCT													

APRIL

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972AREA 0009 KARIMATA STRAIT
1.95 108.12

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) (NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 599	450 999	600 1999	750 3499	900 4999	1050 6499	1200 7999	1350 9499	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	1.8	5.4	7.1	7.1	1.6	1.6	.0	.0	25.0	75.0	56
0600Z	.0	1.9	3.8	1.9	11.3	3.8	.0	.0	.0	.0	22.6	77.4	53
1201Z	.0	2.2	.0	4.3	10.9	4.3	.0	.0	.0	.0	21.7	78.3	46
1802Z	.0	.0	4.4	6.7	4.4	4.4	2.2	2.2	2.2	.0	26.7	73.3	45
TOT	0	2	5	9	17	10	2	2	1	0	48	152	200
PCT	.0	1.0	2.5	4.5	8.5	5.0	1.0	1.0	.5	.0	24.0	76.0	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	.0	.0	1.4	2.3	11.1	54.2	108
0600Z	.0	.0	.9	2.3	12.4	84.5	129
1201Z	.0	.0	2.4	3.6	14.3	79.8	84
1802Z	.0	.0	.0	.9	17.6	81.5	108
TOT	0	0	5	10	59	355	429
PCT	.0	.0	1.2	2.3	13.4	82.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET) (NH >4/8) BY HOUR

HOUR (GMT)	<15' <500'	<60' <1	<100' <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	1.2	10.9	14.5	74.5	55
0600Z	.0	5.9	7.8	15.7	76.5	51
1201Z	.0	2.2	8.9	13.3	77.8	45
1802Z	.0	4.7	11.6	16.3	72.1	43
TOT	0	7	19	29	146	194
PCT	.0	3.6	9.8	14.9	75.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/94	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
85/99	.0	.0	.0	.0	1.4	10.1	2.5	.0	27	13.6
80/84	.0	.0	.0	.0	.9	35.7	34.7	5.0	153	76.9
75/79	.0	.0	.0	.0	.0	.0	6.0	3.0	18	9.0
TOTAL	0	0	0	0	4	91	86	18	199	100.0
PCT	.0	.0	.0	.0	2.0	45.7	43.2	9.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/94	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
85/99	1.4	.5	3.1	2.4	.5	2.1	1.4	1.6	.0	.5
80/84	3.9	6.2	14.8	14.3	6.3	3.6	8.9	0.3	.0	12.6
75/79	.9	3.1	.0	2.0	.9	.1	.5	1.0	.0	.5
TOTAL	6.5	9.8	18.0	18.7	7.7	5.9	10.8	9.0	.0	13.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	88	87	86	62	76	77	77	82.5	137
0600Z	95	93	90	64	79	76	75	84.5	294
1201Z	95	87	86	83	81	79	77	83.0	125
1802Z	86	85	85	62	79	70	71	82.1	179
TOT	95	91	88	63	79	77	71	83.3	735

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.0	.0	.0	.0	10.9	60.0	9.1	81	55
0600Z	.0	.0	.0	.0	.0	58.9	25.0	8.9	78	51
1201Z	.0	.0	.0	.0	.0	48.0	46.0	6.0	61	50
1802Z	.0	.0	.0	.0	.0	45.3	41.5	13.2	82	52
TOT	0	0	0	0	0	98	92	20	80	214

APRIL

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

TABLE 17

AREA 0009 KARIMATA STRAIT
1.05 108.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
11/13	.0	.0	.0	1.5	4	.0	1.5
9/10	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.4	.4	2	.0	.7
5	.0	.7	.0	.0	2	.0	.7
4	.0	.0	.0	.7	2	.0	.7
3	.0	.4	1.1	.4	5	.0	1.9
2	.0	.7	2.2	.4	9	.0	3.4
1	.0	3.7	3.7	.0	20	.0	7.5
0	.0	10.8	2.2	.0	35	.4	12.7
-1	.0	17.5	2.6	.0	54	.0	20.1
-2	1.1	17.9	.0	.0	51	.0	19.0
-3	1.1	8.6	.0	.0	26	.0	4.7
-4	2.6	6.3	.0	.0	24	.4	6.6
-5	1.5	4.1	.4	.0	16	.0	5.0
-6	.4	2.2	.0	.0	7	.0	2.6
-7/-8	2.2	.4	.0	.0	7	.0	2.6
-9/-10	1.1	.0	.0	.0	3	.0	1.1
TOTAL	27	197	34	10	268	2	266
PCT	10.1	73.5	12.7	3.8	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	3.9	.0	.0	.0	.0	5.9	1.0	6.7	.0	.0	.0	.0	7.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.9	.6	.0	.0	.0	5.9	1.0	6.7	.0	.0	.0	.0	10.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.8	.0	.0	.0	.0	2.0	.4	3.1	.0	.0	.0	.0	3.5
1-2	2.2	7.5	.0	.0	.0	.0	10.4	.2	10.2	.0	.0	.0	.0	10.4
3-4	.0	3.0	2.2	.0	.0	.0	5.1	.0	3.9	1.0	.0	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	11.2	3.7	.0	.0	.0	19.1	.6	17.3	1.9	.0	.0	.0	19.7

PERIOD: (OVER-ALL) 1963-1972

APRIL

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.6	.0	.0	.0	.0	.6	.0	3.7	.0	.0	.0	.0	3.7
3-4	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.5	.0	.0	.0	.0	8.1	.0	4.7	.0	.0	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1.4
1-2	.0	6.3	.0	.0	.0	.0	7.7	.0	2.4	.0	.0	.0	.0	.0	5.3
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	9.1	.0	.0	.0	.0	10.4	4.3	2.6	.2	.0	.0	.0	7.1	85.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	20.5	9.1	.0	.0	.0	.0	29.5	085
1-2	8.3	41.7	2.3	.0	.0	.0	52.3	
3-4	.6	11.4	3.8	.0	.0	.0	15.9	
5-6	.0	.0	1.5	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.3	62.1	7.6	.0	.0	.0	100.0	132

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.6	42.1	14.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122
6-7	.0	1.7	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
8-9	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	19.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37
TOTAL	92	82	35	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
PCT	20.2	46.1	19.7	4.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

MAY

AREA 0009 KAPINATA STRAIT
1.83 106.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHWR	PRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	
N	34.8	.0	.0	.0	.0	.0	.0	34.8	.0	.0	.0	.0	.0	.0	65.2
NE	5.8	.0	.0	.0	.0	.0	.0	5.8	.0	7.7	.0	.0	.0	.0	86.3
E	6.0	4.2	.0	.0	.0	.0	.0	10.8	.0	4.2	.0	.0	.0	.0	87.3
SE	2.4	1.3	.0	.0	.0	.0	.0	3.7	.0	6.8	.0	.0	.0	.0	89.3
S	4.1	2.4	.0	.0	.0	.0	.0	6.5	.0	8.2	.0	.0	.0	.0	85.3
SW	4.9	4.9	.0	.0	.0	.0	.0	9.8	.0	1.2	.0	.0	.0	.0	84.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	14.0	.0	.0	.0	.0	.0	.0	14.0	.0	.0	.0	.0	9.3	.0	76.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	4.6	.0	4.8	.0	.0	.0	.0	9.5	.0	9.5	.0	.0	.0	.0	81.0
TOT PCT	5.1	1.9	.8	.0	.0	.0	.0	7.8	.0	5.8	.0	.0	.4	.0	80.4
TOT OBS	257														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHWR	PRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	
0000	8.5	4.2	1.4	.0	.0	.0	.0	14.1	.0	.0	.0	.0	.0	.0	85.9
0600	6.3	2.5	1.3	.0	.0	.0	.0	10.1	.0	.0	.0	.0	.0	.0	89.9
1200	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	8.2	.0	.0	.0	.0	90.2
1800	5.6	.0	.0	.0	.0	.0	.0	5.6	.0	20.4	.0	.0	1.0	.0	74.1
TOT PCT	5.7	1.9	.8	.0	.0	.0	.0	8.9	.0	6.0	.0	.0	.4	.0	85.7
TOT OBS	265														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	1.3	.8	.0	.0	.0		3.1	6.7	2.6	2.9	5.0	6.0	1.0	.0	.0	1.4
NE	1.4	1.3	.9	.0	.0	.0		4.6	7.9	1.0	5.9	4.7	5.0	.0	12.5	6.7	5.8
E	1.6	13.4	2.8	.0	.0	.0		17.9	7.5	16.8	26.5	22.4	16.4	14.8	12.5	13.7	15.2
SE	2.7	25.5	4.4	.0	.0	.0		34.7	8.0	38.0	30.9	35.6	34.3	33.9	37.5	36.7	26.8
S	3.1	10.8	1.6	.0	.0	.0		15.6	6.3	23.1	13.2	11.9	15.7	12.2	25.0	17.3	17.4
SW	1.1	7.3	.9	.0	.0	.0		9.2	6.4	9.4	11.8	6.5	5.2	8.4	12.5	13.0	16.7
W	.5	2.2	.7	.0	.0	.0		3.1	5.8	1.7	.0	2.6	3.7	4.1	.0	3.3	5.1
NW	1.5	2.0	.3	.0	.0	.0		3.8	5.8	2.6	2.9	3.1	6.7	6.1	.0	2.7	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	4.2							8.2	.0	4.5	5.9	8.2	6.0	15.3	.0	6.7	8.7
TOT OBS	132	424	89	9	0	0	646		6.7	104	17	208	67	98	8	75	89
TOT PCT	20.4	65.6	13.6	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15
N	1.7	1.2	.2	.0	.0		3.1	6.7	2.7	5.3	.9
NE	2.2	2.0	.9	.0	.0		4.6	7.9	1.7	5.0	4.7
E	8.7	8.9	.4	.0	.0		17.9	7.5	18.2	20.9	14.6
SE	14.2	19.3	1.2	.0	.0		34.7	8.0	37.0	35.3	34.2
S	9.1	6.2	.2	.0	.0		15.6	6.3	21.7	12.8	13.2
SW	5.8	3.4	.0	.0	.0		9.2	6.4	9.7	8.2	8.7
W	2.0	1.0	.0	.0	.0		3.1	5.8	1.4	2.9	3.8
NW	2.4	1.4	.0	.0	.0		3.8	5.8	2.7	4.0	5.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALC	8.2						8.2	.0	5.0	7.6	14.2
TOT OBS	350	281	15	0	0	646		6.7	121	275	106
TOT PCT	94.2	43.5	2.3	.0	.0		100.0		100.0	100.0	100.0

444

TABLE 4

NAME	CALL	1-3	4-10	11-20	SPEED (KNOTS)	40-60	60-80	80-100	TOTAL DBS
JSC63	5-0	10.7	65.3	19.0	0.0	0.0	0.0	7.5	100.0
JSC60	7.5	13.5	57.1	13.1	1.7	0.0	0.0	0.8	100.0
JSC61	7.5	12.9	57.1	13.1	0.0	0.0	0.0	0.8	100.0
JSC62	7.6	10.4	69.5	12.5	0.0	0.0	0.0	0.8	100.0
JSC64	7.9	7.9	42.4	5.8	0.0	0.0	0.0	0.7	100.0
JSC65	6.2	12.2	64.6	13.0	2.3	0.0	0.0	0.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH $\geq 6/8$
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

000	150	300	450	1500	2000	3500	5000	6500	8000+	4M	5/A	TOTAL
149	249	599	799	1499	3499	4999	6499	7999		249	467	Q85
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
.0	.0	.0	1.3	2.3	2.8	.0	.0	.0	.0	.0	.0	17.3
.0	.0	.0	7.4	3.1	2.8	.0	.0	.0	.0	.0	.0	26.6
.0	.0	1.3	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	11.2
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	9.1
.1	.4	.9	.15	10	1	.0	.0	0	2	112		154
.0	.0	2.0	5.8	9.7	6.5	.0	.0	.0	1.3	72.7		100.0

COMBATIVE POTENTIAL OF SIMULTANEOUS OCCURRENCE
OF "FIGHTING HEIGHT" (IN 34/8) AND "SBY" (IN 4)

[illegible]

PAT FREQ 44 C5/01 72.6

PERCENTAGE PRG OF LG CLOUDS (FIGHTS)

	A	B	C	D	E	F	G	H	I	TOTAL
%	19.4	22.2	21.6	11.0	8.7	4.3	8.6	8.0	.0	122

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1859-1972

MAY

AREA 0009 KARIMATA STRAIT
1.85 108.0P

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CAL:	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS													257
TOT PCT		2.7	9.1	16.1	37.2	16.5	7.0	2.6	1.2	.0	8.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS													985
TOT PCT		2.8	4.0	16.9	37.1	16.5	7.5	2.7	4.4	.0	8.6	100.0	

MAY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

AREA 0009 KARIMATA STRAIT
1.85 106.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.3	4.5	6.8	6.8	.0	.0	.0	.0	20.5	79.5	44
06009	.0	.0	2.1	6.5	14.0	14.0	.0	.0	.0	.0	37.5	62.5	48
12015	.0	.0	.0	2.9	8.6	2.9	2.9	.0	.0	2.9	20.0	80.0	35
18021	3.0	.0	6.1	6.1	6.1	3.0	.0	.0	.0	3.0	27.3	72.7	33
TOT	1	0	4	9	15	11	1	0	0	.	43	117	160
PCT	.6	.0	2.5	5.6	9.4	6.9	.6	.0	.0	1.3	26.9	73.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	4.0	13.0	83.0	100
06009	.0	.0	.0	3.1	13.8	81.5	130
12015	1.3	.0	.0	5.3	21.1	72.4	76
18021	.0	.0	.0	1.2	19.8	79.1	86
TOT	1	1	1	13	54	312	392
PCT	.3	.2	.3	3.3	16.3	79.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <400VD	<500 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.3	7.0	14.0	79.1	43
06009	.0	4.3	14.9	23.4	61.7	47
12015	.0	.0	3.0	18.2	78.8	33
18021	3.0	9.1	15.2	12.1	72.7	33
TOT	1	6	16	27	113	156
PCT	.6	3.8	10.3	17.3	72.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	2	1.1
85/89	.0	.0	.0	.0	2.8	16.4	3.6	.0	45	25.4
80/84	.0	.0	.0	.0	.0	24.3	39.0	5.6	123	69.5
75/79	.0	.0	.0	.0	.0	2.3	1.7	.0	7	4.0
TOTAL	0	0	0	0	7	73	14	14	177	100.0
PCT	.0	.0	.0	.0	4.0	41.2	60.7	7.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85	.0	.7	6.1	10.3	3.1	.7	.0	1.1	.0	2.3
80	.4	3.4	9.2	26.7	11.9	6.5	2.3	1.8	.0	7.3
75	.6	.1	1.0	.1	1.0	.1	.4	.0	.0	.6
TOT	1.6	4.2	16.8	37.7	16.0	7.3	3.2	3.0	.0	10.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	90	86	83	78	72	72	83.0	119
06009	95	91	89	85	79	77	72	84.4	264
12015	94	88	86	83	80	77	72	83.1	102
18021	86	85	84	83	80	76	76	82.4	143
TOT	94	90	88	83	79	77	72	83.5	628

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.2	41.3	45.7	10.9	.1	.0	45	45
06009	.0	.0	6.6	50.6	37.7	4.9	.0	.0	78	81
12015	.0	.0	2.6	42.1	49.4	7.9	.0	.0	80	38
18021	.0	.0	2.6	23.1	61.5	12.8	.0	.0	43	39
TOT	0	0	7	75	86	16	0	0	184	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

NAV

AREA OCEAN KARIYATA STRAIT
1.65 106.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT FOG	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
6	.0	.0	.0	1.3	.0	.0	.0	5	.0	2.2
5	.0	.0	.0	.0	1.7	.0	.0	6	.0	2.6
4	.0	.0	.0	1.7	1.7	.0	.0	8	.0	3.5
3	.0	.0	.0	2.2	7.0	.0	.0	21	.0	7.2
2	.0	.0	.0	13.4	6.0	.0	.0	48	.0	20.1
1	.0	.0	.0	17.2	6.1	.0	.0	42	.0	18.3
0	.0	.0	.0	10.4	1.3	.0	.0	26	.0	12.3
-1	.0	.0	.0	7.4	.4	.0	.0	27	.0	11.8
-2	.0	.0	.0	4.9	.9	.0	.0	19	.0	8.3
-3	.0	.0	.0	2.5	.4	.0	.0	5	.0	4.0
-4	.0	.0	.0	1.7	.4	.0	.0	2	.0	2.2
-5	.0	.0	.0	1.4	.4	.0	.0	1	.0	1.7
-6	.0	.0	.0	.4	.4	.0	.0	1	.0	1.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
TOTAL	2	1	15	60	60	3	3	229	0	729
PCT	.0	.0	14.4	53.2	26.2	1.3	1.3	100.0	0	100.0

PERIOD: (OVER-ALL) 1943-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	15.0	5.4	.7	.0	.0	23.1	.9	28.3	11.9	.0	.0	.0	49.7

PERIOD: (OVER-ALL) 1963-1972

WAV

AREA 0009 KARIMATA STRAIT
1.85 108.05

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
C1	1.0	7.1	.0	.0	.0	.0	1.7	1.0	2.1	.0	.0	.0	.0	1.9	1.9
1-2	.0	7.1	.0	.0	.0	.0	7.1	.0	2.1	.0	.0	.0	.0	2.1	1.0
3-4	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.5	.0	.0	.0	.0	10.5	.0	2.4	.0	.0	.0	.0	2.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
C1	1.0	.0	.0	.0	.0	.0	1.0	1.0	1.9	.0	.0	.0	.0	1.9	1.9
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.0	.0	.0	.0	.0	1.0	.0	1.9	1.0	.0	.0	.0	2.9	87.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
C1	17.0	7.5	.9	.0	.0	.0	25.5	25.5
1-2	.9	42.5	5.7	.0	.0	.0	49.1	49.1
3-4	.0	17.2	5.7	.0	.0	.0	19.8	19.8
5-6	.0	.0	5.7	.0	.0	.0	5.7	5.7
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	17.9	62.2	17.9	.0	.0	.0	100.0	106

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.9	43.1	18.5	4.8	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	2
6-7	.8	3.1	.8	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
8-9	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
14-15	14.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	0
TOTAL	29	62	76	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	2
PCT	22.3	47.7	70.0	6.9	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JUNE

AREA 0009 KARIMATA STRAIT
1.95 100.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	SIN SHNR	DRZL	FRZG PCPN	SNOW	OTHER PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
NE	.0	.0	10.5	.0	.0	.0	.0	10.5	.0	10.5	.0	.0	.0	.0	78.9
E	5.9	.0	4.3	.0	.0	.0	.0	8.0	.0	2.1	.0	.0	.0	.0	89.9
SE	.5	.0	.0	.0	.0	.0	.0	1.1	3.9	4.7	.0	.0	.0	.0	90.3
S	1.5	.0	.0	.0	.0	.0	.0	1.5	7.3	7.3	.0	.0	.0	.0	83.9
SW	6.2	.0	8.2	.0	.0	.0	.0	14.5	14.4	18.4	.0	.0	.0	.0	53.1
W	28.6	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	.0	71.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9	.0	.0	.0	.0	.0	.0	5.9	5.9	23.3	.0	.0	.0	.0	66.7
TOT PCT	2.8	.3	1.4	.0	.0	.0	.0	4.2	3.8	9.3	.0	.0	.0	.0	85.7
TOT OBS	287														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHNR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA	
0600	2.7	.0	2.7	.0	.0	.0	.0	4.1	4.1	1.4	.0	.0	.0	.0	90.4	
0610	2.6	1.3	.0	.0	.0	.0	.0	3.8	3.8	.0	.0	.0	.0	.0	92.3	
1215	2.9	.0	1.5	.0	.0	.0	.0	4.4	1.5	10.2	.0	.0	.0	.0	77.9	
1821	2.6	.0	1.3	.0	.0	.0	.0	3.8	5.1	12.8	.0	.0	.0	.0	78.2	
TOT PCT TOT OBS	2.7 297	.3	1.3	.0	.0	.0	.0	4.0	3.7	7.4	.0	.0	.0	.0	94.8	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21		
N	.7	1.2	.9	.0	.0	.0		2.2	6.0	1.3	.0	2.1	4.7	1.3	.0	2.7	2.7		
NE	.7	3.2	.6	.0	.0	.0		4.4	6.7	3.1	.0	5.6	5.4	3.3	20.0	2.7	4.7		
E	1.5	13.7	9.7	.1	.0	.0		21.1	8.7	22.5	25.0	24.2	24.7	19.2	25.0	14.1	17.3		
SE	2.6	26.6	14.7	.4	.0	.0		45.0	9.4	51.9	53.5	48.5	33.3	41.5	30.0	46.4	41.3		
S	1.3	10.1	7.3	.0	.0	.0		13.7	7.6	14.8	21.4	10.6	9.2	16.3	5.0	17.2	16.7		
SW	.4	3.4	.4	.0	.0	.0		4.1	6.7	2.3	.0	2.6	8.2	7.3	5.0	4.9	.7		
W	.1	.8	.4	.0	.0	.0		1.5	9.0	.0	.0	.5	2.2	1.7	15.0	1.8	4.0		
NW	.4	1.1	.3	.0	.0	.0		1.8	7.2	1.7	.0	2.3	2.2	2.1	.0	.4	2.0		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.3							6.3	.0	2.5	.0	5.5	5.4	7.5	.0	9.8	10.7		
TOT OBS	106	456	184	5	0	0	760		8.1	120	14	217	92	120	10	112	75		
TOT PCT	13.0	60.0	23.4	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	12	18
N	1.4	.7	.0	.0		2.2	6.0	1.1	2.8	1.2	2.7
NE	2.3	1.8	.1	.0		4.4	6.7	2.8	5.6	4.6	3.5
E	7.7	12.3	1.0	.1		21.1	8.7	22.8	24.4	19.6	15.4
SE	13.0	26.0	.4	.0		45.0	9.4	52.1	44.1	40.6	44.4
S	6.3	6.9	.5	.0		13.7	7.6	15.3	10.2	15.4	17.0
SW	2.7	1.3	.1	.0		4.1	6.7	2.1	4.3	7.1	3.2
W	.7	.7	.1	.0		1.5	9.0	.0	1.0	2.7	2.7
NW	.7	1.1	.0	.0		1.8	7.2	1.5	2.3	1.9	1.1
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.3					6.3	.0	2.2	5.5	6.9	10.2
TOT OBS	379	386	44	1	760		8.1	134	309	130	187
TOT PCT	43.3	50.8	5.8	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JUNE

AREA 0009 KARIMATA STRAIT
1.05 108.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				45+	MEAN	PCT	TOTAL
				11-21	22-33	34-47				PRFD	OBS
00003	2.2	9.0	66.4	20.9	1.5	.0	.0	.0	7.9	100.0	134
06009	5.5	8.1	58.6	29.1	.8	.0	.0	.0	8.4	100.0	309
12015	6.9	6.2	59.2	26.9	.8	.0	.0	.0	8.3	100.0	136
18021	10.2	7.0	61.5	21.4	.0	.0	.0	.0	7.4	100.0	187
TOT	48	38	456	193	5	0	0	0	8.1		760
PCT	6.3	7.0	60.0	25.4	.7	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & PMSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.0	.5		6.6
NE	.0	.1	1.7	.5		6.3
E	1.8	9.1	5.9	1.0		4.8
SE	13.7	18.2	22.3	4.8		4.4
S	1.0	4.4	2.3	3.8		5.1
SW	.5	1.2	.5	1.8		5.0
W	.0	.0	.0	.0		.0
NW	.0	.0	1.8	.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	3.1	1.0	1.6	1.6		4.2
TOT OBS	39	56	79	27	193	4.7
TOT PCT	20.2	28.0	37.8	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3000	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	1-9	2-9	9-9	9-9	19-9	34-9	49-9	64-9	79-9			
N	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5	
NE	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.8	
E	.0	.0	.5	.9	.4	1.9	.0	.0	.0	.0	11.0	
SE	.0	.0	.5	3.2	3.8	1.4	.5	.0	.0	.0	47.5	
S	.0	.0	.0	1.0	.4	1.4	.5	.0	.0	.0	7.4	
SW	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0	2.6	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	4.7	
TOT OBS	0	0	4	13	10	16	2	0	0	0	148	193
TOT PCT	.0	.0	2.1	6.7	4.2	8.3	1.0	.0	.0	.0	76.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6000	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>2000	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
>1000	13.4	13.9	13.9	13.9	13.9	13.9	13.9	13.9
>600	19.4	20.9	20.9	20.9	20.9	20.9	20.9	20.9
>300	20.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
>150	20.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
>0	20.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
TOTAL	41	46	46	46	46	46	46	46

TOTAL NUMBER OF OBS: 201

PCT FREQ NM <4/8: 77.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	3.8	17.0	23.6	17.5	14.2	7.9	6.1	3.3	7.1	.0	212

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JUNE

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS													
TOT PCT													
		2.1	3.3	16.4	53.6	11.9	4.3	1.2	1.0	.0	5.4	100.0	287

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS													
TOT PCT													
		2.1	3.6	19.7	48.1	12.8	4.8	.9	1.2	.0	6.7	100.0	431

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JUNE

AREA 0009 KARIHATA STRAIT
1.95 108.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	TOTAL OBS
00003	.0	.0	1.9	3.8	9.4	5.7	1.9	.0	.0	.0	22.6	77.4	53			
06009	.0	.0	1.8	7.0	1.8	10.5	.0	.0	.0	.0	21.1	78.9	57			
12015	.0	.0	2.2	4.3	6.5	4.3	2.2	.0	.0	.0	19.6	80.4	46			
18021	.0	.0	2.0	11.8	2.0	9.8	.0	.0	.0	.0	23.5	74.5	51			
TOT	0	0	4	14	10	16	2	0	0	0	46	161	207			
PCT	.0	.0	1.4	6.8	4.8	7.7	1.0	.0	.0	.0	22.2	77.8	100.0			

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.0	.0	.0	.0	8.9	89.1	101
06009	.7	.0	.0	1.5	11.1	86.7	105
12015	.0	.0	1.2	1.2	11.8	85.9	85
18021	.0	.0	.8	2.5	11.7	85.0	120
TOT	2	0	2	6	46	382	441
PCT	.7	.0	.5	1.4	10.9	86.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM <5/8 BY HOUR

HOUR (GMT)	<150 FT	<600 FT	<1000 FT	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.0	6.1	18.4	75.5	101
06009	.0	1.0	6.8	12.3	78.9	105
12015	.0	2.2	6.5	13.0	80.4	85
18021	.0	2.0	18.4	12.2	69.4	120
TOT	0	4	20	28	153	201
PCT	.0	2.0	10.0	13.9	76.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.4	.0	.0	2	.9
85/89	.0	.0	.0	.0	1.3	6.0	2.7	.4	28	12.4
80/84	.0	.0	.0	.0	2.2	40.7	34.1	6.2	188	73.2
75/79	.0	.0	.0	.0	.0	.4	2.7	.4	6	3.3
TOTAL	0	0	0	0	9	112	89	16	226	100.0
PCT	.0	.0	.0	.0	4.0	49.6	39.4	7.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	COLM
90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85	.4	.1	3.7	6.4	1.3	.0	.0	.0	.0	.0
80	7.2	2.3	9.6	49.3	9.6	3.0	.0	1.3	.0	9.8
75	.0	.0	.3	1.4	.0	.4	.0	.0	.0	1.3
TOT	2.7	2.4	13.9	58.2	11.0	3.4	.0	1.3	.0	7.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	87	86	83	80	79	78	82.6	134
06009	93	92	88	83	79	75	74	83.7	308
12015	87	84	85	82	79	78	77	82.5	131
18021	86	85	84	82	79	75	75	81.9	184
TOT	93	90	87	83	79	76	74	82.9	757

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.7	41.5	45.3	7.5	80	53		
06009	.0	.0	8.1	58.1	27.4	6.5	78	82		
12015	.0	.0	1.9	53.7	38.6	5.6	80	54		
18021	.0	.0	.0	48.1	47.7	9.2	61	65		
TOT	0	0	9	115	93	17	80	234		

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

1976

ARFA 0009 KAPIMATA STRAIT
1.95 106.1F

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT W FOG	NO FOG
7/8	.0	.0	.0	.8	.0	.4	3	1.2
6	.0	.0	.0	.8	.0	.0	2	.8
5	.0	.0	.4	.7	.8	.0	3	1.2
4	.0	.0	.4	.4	.0	.0	2	.8
3	.0	.0	.4	1.2	.0	.0	4	1.6
2	.0	.0	2.4	3.3	.0	.0	14	5.7
1	.0	.0	3.3	2.0	.0	.0	13	5.3
0	.0	.0	9.4	3.3	.0	.0	31	12.7
-1	.0	.8	16.7	2.0	.0	.0	48	19.6
-2	.0	.4	17.6	.8	.0	.0	46	18.8
-3	.0	2.0	11.4	.4	.0	.0	34	13.9
-4	.0	2.9	6.5	.0	.0	.0	23	9.4
-5	.4	2.0	2.9	.0	.0	.0	13	5.3
-6	.0	.0	.8	.0	.0	.0	2	.8
-7/-8	.0	1.6	.8	.0	.0	.0	6	2.4
-9/-10	.0	.4	.0	.0	.0	.0	1	.4
TOTAL	1		179		2		245	
PCT	.4	25	37	.8	.4		100.0	100.0
	10.2	73.1	14.1					

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.7	.7	.0	.0	.0	.0	1.5	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	.7	.0	.0	.0	.0	2.2	.0	.9	.0	.0	.0	.0	.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	4.4	.0	.0	.0	.0	2.4
1-2	.0	3.5	.7	.0	.0	.0	4.2	.7	18.1	5.1	.0	.0	.0	23.9
3-4	.0	3.3	2.6	.0	.0	.0	5.8	.0	4.9	13.9	.0	.0	.0	18.8
5-6	.0	.0	3.6	.0	.0	.0	3.6	.0	.7	6.6	.7	.0	.0	8.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.6	6.9	.5	.0	.0	16.1	.7	26.1	28.5	.9	.0	.0	56.2

PERIOD: (OVER-ALL) 1963-1972

JUNE

AREA 0009 KARIMATA STRAIT
1.95 108.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7
1-2	.5	3.3	.0	.0	.0	.0	3.8	.2	3.6	.0	.0	.0	.0	3.8
3-4	.0	1.3	2.6	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.3	4.0	.0	.0	.0	9.8	.2	4.4	.0	.0	.0	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.5	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.5	91.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT ORS
<1	11.9	5.6	.0	.0	.0	.0	17.5	
1-2	3.5	29.4	6.3	.0	.0	.0	39.2	
3-4	.0	9.1	18.2	.0	.0	.0	27.3	
5-6	.0	.0	9.8	.7	.0	.0	11.2	
7	.0	.0	4.2	.0	.0	.0	4.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.4	44.8	38.5	1.4	.0	.0	100.0	143

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	28.9	21.4	10.2	2.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	3
6-7	.0	2.7	3.7	5.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
8-9	.0	.0	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	2
10-11	.0	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	9.1	1.1	1.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	1
TOTAL	30	63	51	33	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	187	3
PCT	16.0	33.7	27.3	17.6	3.7	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1855-1972

JULY

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN CHMR	RAZL	RAZG	SNOW	OTHER	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	NO SIG
				PCPN		FRZN					PCPN	PCPN PAST HR	HAZE	BLWG DUST
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	16.7	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	83.3
E	.0	2.4	1.2	.0	.0	.0	.0	3.6	1.8	4.8	.0	.0	.0	89.8
SE	.5	.0	.3	.0	.0	.0	.0	.8	.7	1.6	.0	.0	.0	96.9
S	1.1	.0	2.2	.0	.0	.0	.0	3.3	2.7	.0	.0	.0	.0	94.4
SW	45.5	18.2	18.2	.0	.0	.0	.0	43.6	.0	.0	.0	.0	.0	36.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	33.3	33.3	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0	33.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	50.0
TOT PCT	2.0	1.0	1.4	.0	.0	.0	.0	4.1	1.0	1.7	.0	.0	.0	93.2
TOT OBS:	295													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHMR	RAZL	RAZG	SNOW	OTHER	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	NO SIG
				PCPN		FRZN					PCPN	PCPN PAST HR	HAZE	BLWG DUST
0000	1.4	.0	1.4	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	94.3
0600	1.2	2.5	.0	.0	.0	.0	.0	3.7	1.2	.0	.0	.0	.0	95.1
1200	1.4	.0	1.4	.0	.0	.0	.0	2.7	.0	4.1	.0	.0	.0	93.2
1800	4.1	1.4	2.7	.0	.0	.0	.0	6.8	.0	2.7	.0	.0	.0	90.4
TOT PCT	2.0	1.0	1.3	.0	.0	.0	.0	4.0	1.0	1.7	.0	.0	.0	93.2
TOT OBS:	298													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15
N	.1	.1	.0	.0	.0	.0		.3	4.5	.0	.0	.3	1.1	.0	3.3
NE	.9	1.6	.4	.0	.0	.0		2.9	7.1	2.9	.0	3.8	2.7	2.5	3.3
E	1.4	10.8	5.9	.1	.0	.0		18.1	9.2	18.0	6.7	20.3	17.6	17.8	13.3
SE	1.8	31.1	22.0	.8	.0	.0		55.7	10.5	63.5	73.3	55.9	33.6	36.0	58.3
S	1.9	9.6	3.4	.1	.0	.0		15.0	8.3	13.5	6.7	12.9	16.8	11.8	18.3
SW	.1	1.9	.7	.0	.0	.0		2.8	9.1	2.0	.0	1.8	3.3	4.5	3.3
W	.3	.9	.5	.0	.0	.0		1.7	7.7	.8	10.0	2.0	1.6	1.7	.0
NW	.4	.6	.5	.0	.0	.0		1.5	9.0	.4	3.3	1.5	2.2	1.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	.8	.0	1.5	1.1	4.1	.0
TOT OBS	67	422	248	7	0	0	744		9.5	122	15	198	91	121	15
TOT PCT	9.0	56.7	33.3	.9	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15
N	.2	.1	.0	.0	.0	.3	4.5	.0	.5	.4	.0
NE	1.3	1.4	.1	.0	.0	2.9	7.1	2.6	3.5	2.6	2.5
E	6.0	10.9	1.2	.1	.0	18.1	9.2	15.0	19.5	17.3	19.1
SE	11.2	37.3	6.9	.2	.0	55.7	10.5	64.6	59.2	56.3	49.3
S	5.4	9.1	.5	.0	.0	15.0	8.3	12.8	14.1	12.5	23.1
SW	.7	1.9	.1	.0	.0	2.8	9.1	1.8	2.2	4.4	3.0
W	.7	1.0	.0	.0	.0	1.7	7.7	1.8	1.9	1.5	1.6
NW	.7	.5	.3	.0	.0	1.5	9.0	.7	1.7	1.5	1.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0					2.0	.0	.7	1.4	3.7	2.7
TOT OBS	211	463	88	2	744		9.5	137	289	136	182
TOT PCT	28.4	62.2	9.1	.3	100.0			100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1859-1972

AREA 0009 KAPIWATA STRAIT
1.85 108.05

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (G.M.)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.7	5.0	52.0	40.1	.7	.0	.0	10.1	100.0	137
06009	1.4	9.3	55.7	32.2	1.4	.0	.0	9.6	100.0	289
12015	3.7	5.9	57.4	31.0	1.5	.0	.0	9.4	100.0	136
18021	2.7	4.9	61.0	31.3	.0	.0	.0	8.6	100.0	162
TOT	15	32	422	248	7	0	0	9.5		744
PCT	2.0	7.0	56.7	33.3	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL DBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	1.2	1.8	.0		5.2
E	5.7	2.4	0.4	1.1		5.2
SE	29.3	24.2	18.8	2.3		7.4
S	3.2	3.8	5.2	3.3		5.0
SW	.0	.4	.0	1.2		6.3
W	.0	.4	1.2	.0		4.0
WN	.0	.0	.6	1.2		7.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT DBS	37	36	36	16	165	4.2
TOT PCT	22.4	33.9	33.9	9.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY	45/A	TOTAL DBS
	149	290	999	999	1999	3499	4999	6499	7999				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.8	
E	.0	.0	.0	.0	1.5	1.7	.5	.0	.0	.0	.0	12.0	
SE	.0	.0	.0	2.0	2.6	2.4	.8	.0	.0	.0	.0	50.8	
S	.0	.0	.0	1.1	1.7	2.1	.0	.0	.0	.0	.0	10.0	
SW	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.6	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
WN	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT DBS	4	1	1	7	13	11	4	0	0	0	0	128	165
TOT PCT	.6	.4	.6	4.2	7.9	4.7	2.4	.0	.0	.0	.0	77.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VISBY (NM)

CEILING (FEET)	• OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >5000	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
• OR >3500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
• OR >2000	8.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0
• OR >1000	15.0	16.2	16.8	16.8	16.8	16.8	16.8	16.8
• OR >600	18.0	20.4	21.0	21.0	21.0	21.0	21.0	21.0
• OR >300	18.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
• OR >150	18.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
• OR >0	18.0	21.0	22.2	22.2	22.2	22.2	22.2	22.2
TOTAL	31	36	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 167

PCT FREQ NM <5/8: 77.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSD	TOTAL DBS
	9.4	16.3	22.5	22.8	11.2	7.9	9.9	3.2	5.6	178

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1855-1972

JULY

AREA 0009 KARIMATA STRAIT
1.85 108.02

TABLE 3

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

299

TABLE 4

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

431

JULY

PERIOD: (PRIMARY) 1907-1972
(OVER-ALL) 1859-1972AREA 0009 KARIMATA STRAIT
1.85 106.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
00003	2.3	.0	.0	.0	7.0	7.0	11.6	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.6	67.4	43
06009	.0	.0	2.0	5.9	5.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.7	84.3	51
12015	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	91.3	46
18021	.0	.0	.0	3.0	9.1	15.2	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	66.7	33
TOT	1	0	1	7	13	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	136	173
PCT	.0	.0	.0	4.0	7.5	6.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.4	78.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (1/4) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.0	1.0	.0	2.0	14.4	77.6	94
06009	.0	.0	.0	.0	15.3	83.7	135
12015	.0	1.1	.0	.0	15.7	83.1	89
18021	.9	.0	.0	1.8	24.1	73.2	112
TOT	2	2	.0	4	81	345	434
PCT	.5	.5	.0	.9	18.7	79.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (1/4) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.4	2.4	9.5	23.8	66.7	42
06009	.0	2.1	8.3	8.3	83.3	48
12015	.0	.0	.0	8.9	91.1	45
18021	.0	.0	6.3	28.1	65.6	32
TOT	1	2	10	27	190	167
PCT	.6	1.2	6.0	16.2	77.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.5	.0	.0	.0	.0	1	.5
85/89	.0	.0	.0	.5	2.8	4.6	.9	.0	19	8.6
80/84	.0	.0	.0	.0	2.3	43.3	35.5	5.5	188	96.6
75/79	.0	.0	.0	.0	.0	.0	1.4	1.8	7	3.4
70/74	.0	.0	.0	.0	.0	.0	.5	.5	2	.9
TOTAL	0	0	0	2	11	104	83	17	217	100.0
PCT	.0	.0	.0	.9	5.1	47.9	38.2	7.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
.0	.0	1.7	5.5	1.5	.0	.0	.0	.0	.0
.0	1.5	11.3	56.7	13.6	.9	1.4	.5	.0	.5
.0	.5	.0	.9	.5	.5	.0	.5	.0	.5
.0	.0	.0	.0	.5	.0	.0	.5	.0	.0
.0	2.3	13.0	53.6	16.0	1.4	1.4	1.4	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	84	82	79	74	74	81.6	137
06009	94	90	89	83	79	74	73	83.5	291
12015	85	84	84	82	79	74	74	81.8	136
18021	87	84	83	81	79	76	72	81.2	183
TOT	94	89	86	82	79	74	72	82.3	747

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.0	44.0	44.0	8.0	81	50		
06009	.0	3.3	13.1	50.8	27.9	4.9	77	61		
12015	.0	.0	1.8	54.5	38.2	5.5	80	55		
18021	.0	.0	1.9	39.6	45.3	13.2	82	53		
TOT	0	2	12	104	84	17	90	219		

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

41P-SLA	73	77	81	85	89	93	97	TOT	#	40
T4D DJF	76	80	84	88	92			FDG	FDG	
9/10	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	3	.0	1.7
6	.0	.0	.0	.0	.0	.0	.0	3	.0	1.2
4	.0	.0	.0	1.4	.0	.0	.0	4	.0	1.6
3	.0	.0	.4	1.6	.0	.0	.0	5	.0	1.9
2	.0	.4	3.5	2.3	.0	.0	.0	14	.0	6.2
0	.0	.8	6.6	1.7	.4	.0	.0	2	.0	8.7
0	.0	.8	23.6	.8	.0	.0	.0	65	.0	25.7
-1	.0	2.3	16.3	.4	.0	.0	.0	50	.0	19.4
-2	.0	3.5	12.8	.4	.0	.0	.0	43	.0	16.7
-3	.0	.8	5.4	.0	.0	.0	.0	16	.0	6.7
-4	.0	1.7	1.9	.0	.0	.0	.0	4	.0	3.1
-5	.0	1.9	2.3	.0	.0	.0	.0	11	.0	4.3
-6	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-7/-8	1.2	.8	.0	.0	.0	.0	.0	1	.0	1.2
-9/-10	1.4	.0	.0	.0	.0	.0	.0	1	.0	1.4
-11/-13	.0	.0	.0	.0	.0	.0	.0	1	.0	1.4
T-TAL	.6		1.9		.5			0		23.8
FC	2.3	3.4	73.3	8.9	1.9	.4		758		100.0
								100.0		100.0

82-170, 1174-4, 1923-67

245.7 15

DATA FROM 76 WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

[illegible]

PERIOD: (OVER-ALL) 1943-1972

JULY

AREA 0009 KARIMATA STRAIT
1.05 108.0E

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	.0	.7	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
1-2	.7	3.4	.0	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.5	3.4	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL PCT	1.4	8.4	4.3	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
C1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL PCT	.0	.9	.0	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.0	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL DRS
C1	2.7	2.7	.9	.0	.0	.0	6.4	
1-2	1.8	27.3	9.1	.0	.0	.0	38.2	
3-4	.0	6.1	22.7	.0	.0	.0	31.8	
5-6	.0	2.7	12.7	.0	.0	.0	15.5	
7	.0	.0	4.2	1.8	.0	.0	6.4	
8-9	.0	.9	.9	.0	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOTAL PCT	4.5	42.7	50.9	1.8	.0	.0	100.0	110

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PROPER FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	C1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	15-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.0	19.3	28.7	8.7	5.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	3
6-7	.0	1.3	8.0	7.3	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
8-9	.0	.0	1.3	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	1	34	63	27	14	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	150	3
PCT	5.3	22.7	42.0	18.0	9.3	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1971
(COVER-ALL) 1858-1971

AUGUST

AREA 0009 KARIMATA STRAIT
1.85 108.02

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	PRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	19.0	.0	.0	.0	.0	.0	.0	19.0	.0	.0	19.0	.0	.0	.0	61.9
E	3.7	1.8	1.8	.0	.0	.0	.0	7.3	5.5	3.7	.0	.0	.0	.0	85.4
SE	.6	.0	.1	.0	.0	.0	.0	1.3	.6	3.4	.3	.0	.0	.0	95.1
S	.0	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	1.2	.0	.0	.0	97.1
SW	.0	30.8	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	.0	.0	69.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	75.0
TOT PCT	1.4	1.0	.7	.0	.0	.0	.0	3.1	1.7	3.1	.7	.0	.0	.0	92.0
TOT OBS:	289														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	PRZL	PRZG OCON	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	1.3	1.3	.0	.0	.0	.0	2.7	.0	.0	1.3	.0	.0	.0	98.0
0600	1.5	1.5	.0	.0	.0	.0	.0	3.0	3.0	.0	1.5	.0	.0	.0	92.5
1201	1.5	1.5	1.5	.0	.0	.0	.0	4.5	1.5	4.5	.0	.0	.0	.0	89.6
1807	2.5	.0	.0	.0	.0	.0	.0	2.5	2.5	7.4	.0	.0	.0	.0	90.1
TOT PLY TOT OBS	1.4 290	1.0	.7	.0	.0	.0	.0	3.1	1.7	3.1	.7	.0	.0	.0	92.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	.2	.0	.0	.0	.0		.2	7.6		.0	.3	.0	1.4	.0	.0	.0	.0
NE	.1	1.6	.1	.0	.0	.0		1.8	6.6		1.4	4.3	2.4	2.4	1.5	.0	2.2	.6
E	.9	13.2	6.4	.2	.0	.0		21.0	9.4		22.0	22.7	25.1	26.7	14.2	25.0	13.8	23.3
SE	1.3	29.2	24.0	1.2	.0	.0		57.7	10.9		59.9	63.2	55.6	49.8	56.4	70.8	63.4	54.3
S	.8	10.5	3.4	.0	.0	.0		15.1	8.7		15.1	4.5	11.6	15.9	22.8	4.2	17.5	10.1
SW	.4	1.5	.3	.0	.0	.0		2.1	7.5		1.1	.0	3.3	3.4	1.5	.0	1.3	2.2
W	.0	.4	.1	.1	.0	.0		.5	10.5		.5	.0	.5	.0	.7	.0	.4	1.1
NW	.1	.2	.0	.1	.0	.0		.4	5.5		.0	.0	.7	.5	.7	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		.0	.0	.0	.0	2.2	.0	1.5	3.4
TOT OBS	40	483	316	13	0	0		852	9.9		141	11	222	104	137	12	136	89
TOT PCT	4.7	56.7	37.1	1.5	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.1	.1	.0	.0	.0	.0		.2	7.6		.0	.5	.0
NE	1.1	.8	.0	.0	.0	.0		1.8	6.6		1.6	2.4	1.3
E	5.7	14.6	.6	.1	.0	.0		21.0	9.4		22.0	25.0	15.1
SE	9.7	41.9	5.7	.5	.0	.0		57.7	10.9		60.5	53.8	57.6
S	5.9	8.2	1.0	.0	.0	.0		15.1	8.7		14.3	13.0	21.3
SW	.8	1.3	.0	.0	.0	.0		2.1	7.5		1.0	.3	1.3
W	.2	.3	.1	.0	.0	.0		.5	10.5		.5	.3	.7
NW	.1	.2	.1	.0	.0	.0		.4	5.5		.0	.6	.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0
CALM	1.2					.0		1.2	.0		.0	.6	2.0
TOT OBS	211	573	63	5	0	852		9.9			152	326	149
TOT PCT	24.8	67.3	7.4	.6	.0	100.0			100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1858-1971

AUGUST

AREA 0009 KARIWATA STRAIT
1.85 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.0	2.0	63.2	33.6	1.3	.0	.0	9.8	100.0	152
06009	.0	3.8	51.5	40.3	1.5	.0	.0	10.1	100.0	326
12015	2.0	2.0	59.1	36.2	.7	.0	.0	10.1	100.0	149
18021	2.2	2.2	58.2	35.1	2.2	.0	.0	9.7	100.0	225
TOT	10	30	483	316	13	0	0	9.9		952
PCT	1.2	3.5	56.7	37.1	1.5	.0	.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN
				OBSCD	OBS	COVER
N	.0	.0	.0	.0	.0	.0
NE	.1	.0	.5	.5		6.6
E	3.2	5.2	8.4	2.3		4.8
SE	13.5	17.8	22.0	6.6		4.4
S	4.1	3.0	8.1	2.3		4.7
SW	.0	.4	.1	.1		4.8
W	.0	.0	.0	.4		3.8
NW	.0	.0	.5	.0		6.0
VAR	.0	.0	.0	.0		.0
CALV	.5	.0	.0	.5		5.0
TOT OBS	42	52	78	25	197	4.6
TOT PCT	21.3	26.4	39.6	12.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	1500	3000	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1499	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5
E	.0	.0	.0	1.3	1.4	1.0	.0	.0	.0	.0	.4	15.0
SE	.0	.0	.0	1.5	2.4	1.5	.5	.0	.0	.0	.5	52.8
S	.0	.0	.0	.3	1.8	1.0	.0	.0	.0	.0	.0	14.5
SW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.5
W	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALV	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5
TOT OBS	0	1	1	1	12	8	1	0	1	1	186	197
TOT PCT	.0	.0	.5	3.6	6.1	4.1	.5	.0	.5	.5	84.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM)	>1	>1/2	>1/4	>50VD	>0
>6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>2000	4.6	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6
>1000	10.3	11.3	11.8	11.8	11.8	11.8	11.8	11.8	11.8
>600	11.6	14.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
>300	12.3	14.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
>150	12.3	14.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
>0	12.3	14.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
TOTAL	24	29	31	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 195

PCT FREQ NM <5/8: 84.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
										OBS
4.7	13.7	27.5	23.2	15.2	4.9	5.7	3.3	2.4	.0	211

PERIOD: (PRIMARY) 1911-1971
(U/ER-ALL) 1954-1971

AUGUST

AREA 0009 KARIMATA STRAIT
1.05 108.0F

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.7	.4	.3	.4	.0	.0	.0	.0	1.7	15.7
	NO PCP	.0	.0	10.9	10.9	10.9	10.9	.0	.0	.0	.0	15.7	
	TOT %	.0	.0	11.6	11.3	11.2	11.3	.0	.0	.0	.0	17.4	
10+	PCP	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	1.0	15.9
	NO PCP	.0	.0	15.2	19.7	13.1	.0	.0	.0	.0	1.4	85.8	
	TOT %	.0	.0	15.9	20.1	13.1	.0	.0	.0	.0	1.4	86.8	
TOT OBS													287
TOT PCT		.0	1.0	19.1	61.4	14.5	1.1	.3	.3	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.1	.1	.1	.3	.2	.0	.0	.0	.0	.8	13.0
	4-10	.0	.5	1.8	3.0	.7	.7	.0	.0	.0	.0	6.7	
	11-21	.0	.0	.8	4.2	.3	.0	.0	.0	.0	.0	5.3	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.6	2.7	7.5	1.3	.9	.0	.0	.0	.0	13.0	
10+	0-3	.0	.1	.4	1.0	.1	.0	.0	.0	.0	.0	2.4	30.2
	4-10	.1	.4	12.5	29.0	9.4	.6	.0	.3	.0	.0	52.4	
	11-21	.0	.0	4.4	21.5	4.1	.2	.0	.0	.0	.0	30.2	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.5	17.3	51.9	13.6	.8	.0	.3	.0	.0	85.4	
TOT OBS													306
TOT PCT		.1	1.3	20.3	60.4	15.0	1.7	.1	.3	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1971
(OVERALL) 1858-1971

AUGUST

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/6 BY HOUR

HOUR (GMT)	000 140	150 290	300 390	400 490	500 590	600 690	700 790	800 890	900 990	1000 1090	1100 1190	1200 1290	1300 1390	1400 1490	1500 1590	1600 1690	1700 1790	1800 1890	TOTAL OBS	NM <5/6 OBS	TOTAL OBS
00003	.0	.0	1.7	3.4	5.2	.0	1.7	.0	.0	.0	.0	12.1	87.9	98							
06009	.0	.0	.0	.0	10.4	6.3	.0	.0	.0	.0	.0	16.7	83.3	48							
12015	.0	.0	.0	2.2	2.2	8.7	.0	.0	.0	2.2	.0	15.2	84.8	46							
18021	.0	.0	.0	7.0	5.3	1.8	.0	.0	.0	1.8	.0	15.9	84.2	57							
TOT	0	0	1	7	12	8	1	0	1	1	1	31	178	209							
PCT	.0	.0	.5	3.3	5.7	3.8	.5	.0	.5	.5	.5	14.8	85.2	100.0							

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	1.8	7.1	91.2	113
06009	.0	.0	.0	1.3	12.8	89.3	156
12015	.0	.0	.0	1.0	13.6	85.4	103
18021	.0	.0	.0	1.5	17.8	80.7	135
TOT	0	1	0	7	56	433	507
PCT	.0	.2	.0	1.4	13.0	85.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/6 AND 5+	TOTAL OBS
00003	.0	1.9	5.6	7.4	87.0	54
06009	.0	.0	2.2	15.2	82.6	46
12015	.0	.0	2.3	14.0	83.7	43
18021	.0	.0	7.7	9.6	82.7	52
TOT	0	1	9	22	164	195
PCT	.0	.5	4.6	11.3	84.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.8	3.7	.9	.0	11	3.1
80/84	.0	.0	.0	.0	1.8	4.2	37.9	6.1	184	86.0
75/79	.0	.0	.0	.0	1.4	5.1	1.9	.0	18	8.4
70/74	.0	.0	.0	.0	.0	.0	.0	.0	1	.5
TOTAL	0	0	0	0	5	27	74	18	214	100.0
PCT	.0	.0	.0	.0	2.3	45.3	43.9	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.3	2.9	.8	.1	.0	.0	.0	.0
.0	.3	15.2	53.9	14.7	.8	.0	.0	.0	.9
.0	.3	2.9	3.9	.2	.0	.0	.5	.0	.5
.0	.0	.0	.0	.0	.1	.4	.0	.0	.0
.0	.9	14.4	60.0	15.8	1.1	.4	.5	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	75%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	84	82	79	76	73	81.5	151
06009	93	90	87	83	79	76	75	82.9	316
12015	95	84	84	81	79	74	67	81.3	149
18021	97	89	83	81	79	75	75	80.9	227
TOT	93	88	86	82	79	74	69	81.8	843

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	42.1	49.1	8.8	81	57
06009	.0	.0	6.1	55.1	26.5	12.2	79	49
12015	.0	.0	2.1	52.1	39.6	6.3	80	48
18021	.0	.0	1.6	36.1	55.7	6.6	82	61
TOT	0	0	5	98	94	18	81	215

PERIOD: PRIMARY 1911-1971
 (OVER-ALL) 1948-1971

AUGUST

TABLE 17

AREA 0009 KARIMATA STRAIT
 1.85 106.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NJ FOG
6	.0	.0	.0	.8	.0	2	.0	.0
5	.0	.0	.0	2.0	.8	7	.0	2.8
4	.0	.0	.8	.8	.0	4	.0	1.6
3	.0	.0	1.2	1.2	.0	7	.0	2.8
2	.0	.0	6.4	.4	.0	17	.0	6.8
1	.0	.0	11.2	.8	.0	30	.0	12.0
0	.0	.8	26.8	.0	.0	69	.0	27.6
-1	.0	4.0	16.4	.0	.0	46	.0	18.4
-2	.0	4.0	5.6	.0	.0	24	.4	9.2
-3	.0	3.2	4.8	.0	.0	20	.0	8.0
-4	.0	1.6	2.4	.0	.0	10	.0	4.0
-5	.0	2.4	.0	.0	.0	8	.0	2.4
-6	1.2	.4	.0	.0	.0	2	.0	1.6
-7/-8	.4	.4	.0	.0	.0	2	.0	.8
-9/-10	.4	.4	.0	.0	.0	2	.0	.8
TOTAL	5	18.4	15	3	25.0	1	24.7	
PCT	2.0	17.2	73.6	6.0	1.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERS S & HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.0	.8	.0	.0	.0	1.8
1-2	.0	7.2	3.1	.0	.0	.0	10.2	.0	17.4	8.6	.0	.0	.0	28.0
3-4	.0	.8	2.9	.0	.0	.0	3.7	.0	8.6	19.9	.0	.0	.0	28.5
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.4	6.8	.8	.0	.0	8.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.6	7.6	.0	.0	.0	16.2	.0	27.5	36.1	.8	.0	.0	64.3

PERIOD: (OVER-ALL) 1963-1971

AUGUST

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.0	.6	.0	.0	.0	7.6	.0	.0	.2	.0	.0	.0	.2
3-4	.0	1.2	3.1	.0	.0	.0	4.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	1.2	2.3	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.2	5.9	.0	.0	.0	16.2	.0	.0	.6	.0	.0	.0	.6

HGT	M						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.4	2.4	.8	.0	.0	.0	5.7	123
1-2	.0	31.7	13.0	.0	.0	.0	44.7	
3-4	.0	10.5	26.0	.0	.0	.0	36.5	
5-6	.0	1.5	9.8	.8	.0	.0	12.1	
7	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	46.3	50.4	.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-46	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	21.3	31.6	10.3	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	3
6-7	.0	2.3	5.2	8.6	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
8-9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	1
INDET	4.6	.6	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	3
TOTAL	12	42	70	39	9	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	6.9	24.1	40.2	22.4	5.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FR7G PCPN	SNOW	OTHER FKGZ PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	.0	44.4	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0	.0	55.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	86.7
E	2.0	3.4	.0	.0	.0	.0	.0	5.4	7.0	1.5	.0	.0	2.0	.0	89.2
SE	2.0	.8	.0	.0	.0	.0	.0	4.1	1.3	1.1	5.2	.0	1.4	.0	86.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	4.2	.0	91.6
SW	11.6	.0	2.3	.0	.0	.0	.0	14.0	9.3	9.3	.0	.0	.0	.0	67.4
W	15.8	.0	15.8	.0	.0	.0	.0	31.6	21.1	.0	.0	.0	.0	.0	47.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.4	.0	.0	.0	.0	63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	29.0	.0	.0	.0	.0	.0	29.0	.0	.0	.0	.0	.0	.0	75.0
TOT PCT	2.6	1.8	.7	.0	.0	.0	.0	5.1	1.8	2.6	2.9	.0	1.8	.0	85.7
TOT OBS:	273														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRFL	FR7G PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WFA
0000Z	3.0	3.0	1.5	.0	.0	.0	.0	7.4	3.0	1.5	1.5	.0	1.5	.0	.0	84.8
0600Z	.0	.0	1.3	.0	.0	.0	.0	1.3	2.5	.0	5.1	.0	2.5	.0	.0	88.6
1201Z	.0	3.3	.0	.0	.0	.0	.0	3.3	1.5	3.3	1.0	.0	.0	.0	.0	90.2
1802Z	6.9	1.4	.0	.0	.0	.0	.0	8.3	.0	5.6	2.8	.0	2.8	.0	.0	80.6
TOT PCT TOT OBS:	2.5	1.8	.7	.0	.0	.0	.0	5.0	1.8	2.5	2.9	.0	1.8	.0	.0	86.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	.3	.1	.0	.0	.0		.8	4.8	.9	.0	.7	1.1	1.5	.0	.4	.0	
NE	1.7	2.7	.2	.0	.0	.0		4.0	5.4	2.4	.0	3.7	5.9	4.0	2.8	3.3	5.9	
E	1.7	11.2	4.8	.1	.0	.0		17.8	9.2	19.7	40.0	17.5	20.7	13.9	25.0	16.4	17.8	
SE	2.9	30.7	14.9	.5	.0	.0		52.5	9.8	55.6	35.0	54.2	45.7	32.7	44.4	51.8	54.5	
S	1.1	10.5	7.0	.1	.0	.0		15.5	8.5	13.0	20.0	14.5	16.5	18.8	22.2	16.4	13.0	
SW	.2	2.6	.3	.0	.0	.0		3.1	7.1	3.0	2.0	2.9	3.2	2.7	5.6	4.5	2.0	
W	.4	1.1	.3	.0	.0	.0		1.8	7.8	.9	.0	3.1	.5	2.0	.0	2.7	.5	
NW	.2	1.0	.1	.0	.0	.0		1.2	6.7	2.1	.0	.7	1.1	1.5	.0	.4	2.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	.0	2.3	.0	2.8	5.3	2.9	.0	3.9	3.0
TOT OBS	87	494	734	6	0	0	828		8.8		193	10	216	94	137	9	128	101
TOT PCT	10.5	60.3	24.9	.7	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	09	15	18
N	.6	.2	.0	.0	.0			.8	4.8	.9	.0	.7	1.1	1.5	.0
NE	2.6	1.4	.0	.0	.0			4.0	5.4	2.4	.0	3.7	5.9	4.0	2.8
E	4.7	11.7	1.4	.0	.0			17.8	9.2	19.7	40.0	17.5	20.7	13.9	25.0
SE	12.5	36.5	3.5	.0	.0			52.5	9.8	55.6	35.0	54.2	45.7	32.7	44.4
S	5.7	9.2	.7	.0	.0			15.5	8.5	13.0	20.0	14.5	16.5	18.8	22.2
SW	1.6	1.1	.2	.0	.0			3.1	7.1	3.0	2.0	2.9	3.2	2.7	5.6
W	1.1	.5	.3	.0	.0			1.8	7.8	.9	.0	3.1	.5	2.0	.0
NW	.7	.5	.1	.0	.0			1.2	6.7	2.1	.0	.7	1.1	1.5	.0
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	.0	2.3	.0	2.8	5.3	2.9
TOT OBS	272	505	51	0	0	828			8.8		143	310	146	229	101
TOT PCT	32.9	61.0	6.2	.0	.0			100.0			100.0	100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

GROUP	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.1	7.7	62.9	27.3	.0	.0	.0	8.7	100.0	143
06009	3.5	7.4	50.1	30.0	1.0	.0	.0	8.9	100.0	310
12015	2.7	6.2	58.2	30.8	2.1	.0	.0	9.2	100.0	146
18021	3.5	7.9	62.9	25.8	.0	.0	.0	8.5	100.0	229
TOT	76	61	409	236	6	0	0	6.6		628
PCT	3.1	7.4	66.3	28.5	.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD COVER
N	.4	.0	.3	.4	5.7
NE	.3	.0	.7	2.5	7.2
E	4.1	3.5	5.3	6.1	5.7
SE	7.6	11.0	23.2	9.9	5.1
S	1.5	2.5	5.8	4.2	5.8
SW	.7	1.2	1.6	1.2	5.2
W	.0	.0	1.8	.6	6.6
NW	.0	.0	.4	.4	7.4
VAR	.0	.0	.0	.0	.0
CALM	.0	.0	1.2	1.2	7.2
TOT OBS	25	31	69	46	171
TOT PCT	14.6	18.1	40.4	26.9	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

300	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	298	498	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.7	
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.1	2.2
.6	.0	.4	.0	4.4	.6	.0	.0	.0	1.0	12.0	
.0	.0	.7	1.8	6.7	2.3	.0	.6	.0	.0	39.6	
.0	.0	.0	.6	1.2	1.2	.0	.0	.0	.0	11.1	
.0	.0	.0	.6	.7	.6	.0	.0	.0	.0	2.8	
.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	1.2	
1	0	2	7	27	8	1	1	0	2	122	171
.6	.0	1.2	4.1	15.8	4.7	.6	.6	.0	1.2	71.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	* JR >10	* DR >5	* DR >2	VSBY (NM) * DR >1	* DR >1/2	* DR >1/4	* DR >50YD	* DR >0
* DR >6500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* DR >5000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* DR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* DR >2000	6.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4
* DR >1000	19.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
* DR >600	21.7	27.4	27.4	27.4	27.4	27.4	27.4	27.4
* DR >300	22.9	28.6	28.6	28.6	28.6	28.6	28.6	28.6
* DR >150	22.9	28.6	28.6	28.6	28.6	28.6	28.6	28.6
* DR >0	22.9	29.1	29.1	29.1	29.1	29.1	29.1	29.1
TOTAL	40	51	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 171

* FREQ NH <5/8: 70.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
9.3	14.1	16.1	19.3	13.0	5.7	2.6	7.3	13.0	192

PERIOD: (PRIMARY) 1911-'971
(OVER-ALL) 1896- '71

SEPTEMBER

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALC	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	2.6
	TOT %	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	2.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	1.1
	TOT %	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	1.1
2<5	PCP	.0	.0	.0	.4	.0	.1	.3	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.7
	TOT %	.0	.0	.4	.4	.4	.1	.3	.0	.0	.0	.0	1.4
5<10	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.7
	NO PCP	.0	.5	2.1	15.5	2.3	.2	.4	.4	.0	.0	.0	21.2
	TOT %	.0	.5	2.5	15.5	2.3	.2	.4	.4	.0	.0	.4	22.0
10+	PCP	.4	.0	.6	1.9	.0	.5	.3	.1	.0	.0	.4	3.7
	NO PCP	.5	2.3	15.2	35.6	9.9	3.7	.6	.0	.0	1.1	.0	69.2
	TOT %	.9	2.3	15.8	37.5	9.9	4.2	1.1	.6	.0	1.1	.4	72.9
TOT OBS													273
TOT PCT		.9	2.7	16.7	56.5	13.1	3.9	1.7	1.0	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALC	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.7	.3	.2	.0	.0	.0	.0	.0	1.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.7	.3	.2	.0	.0	.0	.0	.0	1.2
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4
	4-10	.0	.0	.2	.4	.0	.0	.1	.0	.0	.0	.0	.8
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.6	.4	.2	.0	.1	.2	.0	.0	.0	1.6
5<10	0-3	.0	.0	.5	.2	.3	.0	.0	.0	.0	.2	.0	1.2
	4-10	.0	.2	.6	5.4	.6	.2	.4	.4	.0	.0	.0	7.9
	11-21	.0	.0	.9	4.8	.6	.0	.0	.0	.0	.0	.0	6.5
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.2	2.0	10.6	1.7	.2	.4	.4	.0	.2	.0	15.7
10+	0-3	.3	.7	1.3	1.5	.7	.2	.5	.0	.0	2.8	.0	8.1
	4-10	.3	1.5	11.1	26.4	6.8	1.8	.2	.6	.0	.0	.0	48.6
	11-21	.0	.0	4.8	15.8	2.2	.2	.0	.0	.0	.0	.0	23.0
	22+	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4
	TOT %	.6	2.2	17.2	44.0	9.7	2.2	.8	.6	.0	2.8	.0	80.1
TOT OBS													308
TOT PCT		.6	2.5	19.8	57.0	12.0	2.6	1.3	1.2	.0	3.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.0	.0	2.0	.0	26.5	2.0	.0	2.0	.0	2.0	36.7	63.3	49
06009	.0	.0	.0	1.9	9.6	1.0	.0	.0	.0	.0	13.5	86.5	92
12014	.0	.0	.0	7.0	9.3	4.7	2.3	.0	2.3	2.3	27.0	72.1	43
18021	.0	.0	2.3	7.0	14.0	9.3	.0	.0	.0	.0	32.6	67.4	43
TOT	1	0	2	7	28	8	1	1	1	2	51	136	187
PCT	.5	.0	1.1	3.7	15.0	4.3	.5	.5	.5	1.1	27.3	72.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.9	1.8	.9	10.0	86.4	110
06009	.0	2.0	.7	3.3	13.1	81.0	153
12015	.0	1.0	2.0	1.0	19.6	76.5	102
18021	.0	1.4	.7	.7	19.6	77.7	148
TOT	0	7	6	8	80	412	513
PCT	.0	1.4	1.2	1.6	15.6	80.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 450YD	<600 41	<1000 45	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.1	4.3	4.3	34.0	61.7	47
06009	.0	.0	2.0	12.2	85.7	49
12015	.0	.0	7.7	23.1	69.2	39
18021	.0	2.5	10.0	25.0	65.0	40
TOT	1	3	10	41	124	175
PCT	.6	1.7	5.7	23.4	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
85/89	.0	.0	.0	.5	.0	4.0	1.4	.0	17	7.9
80/84	.0	.0	.0	.0	.9	34.4	37.2	10.5	179	33.3
75/79	.0	.0	.0	.0	.0	1.4	3.7	2.3	16	7.4
70/74	.0	.0	.0	.0	.0	.0	.0	.0	2	.9
TOTAL	0	0	0	1	2	91	93	28	215	100.0
PCT	.0	.0	.0	.5	.9	42.3	43.3	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
.0	.1	2.8	4.1	.5	.5	.0	.0	.0	.0
.2	2.1	12.2	31.4	11.0	3.0	1.2	.7	.0	1.4
.5	.5	1.0	3.3	.8	.7	.7	.0	.0	.0
.0	.0	.0	.0	.8	.1	.0	.0	.0	.0
.7	2.7	16.0	59.2	13.1	4.3	1.9	.7	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	84	82	79	74	74	81.4	140
06009	94	90	87	83	80	75	72	83.1	297
12015	86	85	84	82	79	77	75	81.6	144
18021	85	84	83	81	78	75	74	81.0	229
TOT	94	88	86	82	79	75	72	82.0	810

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.5	31.9	55.3	12.8	83	47
06009	.0	1.7	1.7	.0	57.6	32.2	6.8	.0	78	59
12015	.0	.0	2.0	.0	47.1	44.1	7.8	.0	80	51
18021	.0	.0	.0	.0	30.6	46.8	22.6	.0	84	67
TOT	0	1	2	.0	92	96	28	.0	311	219

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

SEPTEMBER

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 17

PLT PRPO UP AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	%	WD FOG
7/A	.0	.0	.5	.0	1.0	3	.0	1.4
5	.0	.0	1.0	.5	.0	3	.0	1.4
4	.0	.0	.5	2.4	.0	5	.0	2.9
3	.0	.0	.5	.5	.0	2	.0	1.0
2	.0	.0	6.2	1.9	.0	21	.0	10.1
1	.0	1.0	10.9	1.9	.0	22	.0	13.5
0	.0	3.8	21.6	.5	.0	54	.0	26.0
-1	.5	3.4	12.0	.5	.0	34	.0	16.3
-2	.5	1.9	9.6	.0	.0	25	.0	12.0
-3	.0	2.9	1.9	.0	.0	10	.0	4.8
-4	.0	1.4	2.4	.0	.0	8	.0	3.8
-5	.0	2.4	1.0	.0	.0	7	.0	3.4
-6	.0	1.0	.0	.0	.0	2	.0	1.0
-7/-8	.0	1.4	.0	.0	.0	3	.0	1.4
-9/-10	.5	.5	.0	.0	.0	2	.0	1.0
TOTAL	3	41	145	17	2	208	.0	208
PCT	1.4	19.7	67.7	8.7	1.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0	.0	1.2	.0	.0	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	1.4	.0	.0	.0	.0	1.4
1-2	1.0	5.1	.7	.0	.0	.0	5.8	.0	21.1	.0	.0	.0	.0	30.1
3-4	.0	3.4	2.2	.0	.0	.0	5.6	.0	7.5	13.1	.0	.0	.0	20.6
5-6	.0	1.0	.7	.0	.0	.0	1.7	.0	.2	2.2	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	10.4	3.6	.0	.0	.0	15.0	.0	30.8	24.3	.0	.0	.0	55.1

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

AREA 0009 KARIMATA STRAIT
1.05 108.0F

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	8.5	.0	.0	.0	.0	5.5	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	2.4	4.1	.0	.0	.0	5.6	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.7	1.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.7	5.1	.0	.0	.0	16.7	.0	5.6	.0	.0	.0	.0	5.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.0	.0	.0	.0	1.5	.0	1.0	.0	.0	.0	.0	1.0	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.7	3.3	.0	.0	.0	.0	5.8	
1-2	1.0	41.7	9.7	.0	.0	.0	52.4	
3-4	.0	14.4	19.4	.0	.0	.0	34.0	
5-6	.0	2.9	3.9	.0	.0	.0	6.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	63.1	33.0	.0	.0	.0	100.0	103

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	32.5	29.1	7.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	3
6-7	.7	1.3	6.0	4.0	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
8-9	.0	.0	1.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
12-13	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
MEAN	2.0	2.6	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2
TOTAL	4	57	62	21	5	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	3
PCT	2.6	37.7	41.1	13.9	3.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1854-1972

OCTUBER

AREA 0009 KARIMATA STRAIT
1.85 108.0F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY RLNG SNOW	NO SIG MEA
N	.0	9.3	18.6	.0	.0	.0	.0	27.9	.0	.0	.0	.0	.0	.0	72.1
NE	13.8	.0	6.9	.0	.0	.0	.0	20.7	20.7	6.9	.0	.0	.0	.0	51.7
E	1.8	1.8	1.3	.0	.0	.0	.0	4.9	5.3	9.8	1.8	.0	1.3	.0	76.9
SE	10.0	2.4	3.2	.0	.0	.0	.0	15.6	.0	6.8	3.5	.0	3.7	.0	72.0
S	5.3	1.8	1.8	.0	.0	.0	.0	8.8	.0	6.2	.0	.0	1.8	.0	83.2
SW	11.5	2.9	1.0	.0	.0	.0	.0	15.4	7.7	7.7	.0	.0	1.9	.0	71.2
W	12.5	9.7	6.9	.0	.0	.0	.0	29.2	.0	5.6	.0	.0	.0	.0	65.3
NW	23.9	.0	4.3	.0	.0	.0	.0	28.3	.0	8.7	.0	.0	.0	.0	63.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	.0	4.5	.0	.0	.0	.0	9.1	.0	31.8	.0	.0	.0	.0	59.1
TOT PCT	8.1	2.6	3.7	.0	.0	.0	.0	14.2	2.9	9.2	1.5	.0	1.5	.0	71.3
TOT OBS	272														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY RLNG SNOW	NO SIG MEA
00003	10.7	4.0	3.3	.0	.0	.0	.0	20.0	8.0	1.3	2.7	.0	1.3	.0	66.7
06009	4.9	4.9	3.7	.0	.0	.0	.0	13.6	2.5	.0	1.2	.0	1.2	.0	81.3
12015	7.8	1.6	1.6	.0	.0	.0	.0	10.9	.0	7.3	1.6	.0	.0	.0	79.7
18021	8.2	1.4	2.7	.0	.0	.0	.0	12.3	1.4	27.4	.0	.0	2.7	.0	58.9
TOT PCT	7.8	3.1	3.4	.0	.0	.0	.0	14.3	3.1	8.9	1.4	.0	1.4	.0	71.7
TOT OBS	293														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	1.4	.1	.0	.0	.0		2.6	5.3	4.1	.0	3.8	.0	1.7	.0	3.2	.7	
NE	.8	4.2	.7	.0	.0	.0		5.8	6.8	7.2	.0	7.9	1.8	5.2	.0	4.7	6.6	
E	2.1	12.7	2.7	.0	.0	.0		18.9	7.2	19.9	35.0	16.5	11.8	17.0	16.7	16.9	15.8	
SE	3.4	20.7	7.4	.0	.0	.0		31.5	8.2	31.4	14.0	27.5	34.9	33.3	44.4	33.8	32.2	
S	2.3	10.7	2.3	.0	.0	.0		15.3	8.8	12.7	30.0	14.6	16.5	13.9	27.8	13.4	16.4	
SW	1.7	5.4	1.6	.0	.0	.0		8.7	7.3	6.4	.0	8.3	16.3	12.6	11.1	3.9	7.2	
W	1.4	2.6	.7	.1	.0	.0		4.9	6.8	4.3	15.0	4.5	3.5	5.2	.0	3.7	5.9	
NW	.7	2.3	.2	.0	.0	.0		3.2	6.1	2.9	5.0	2.6	2.4	2.4	.0	5.1	4.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	11.2							11.2	.0	10.9	.0	11.3	11.8	8.7	.0	15.7	10.5	
TOT OBS	183	445	114	1	0	0	743	120	6.3	120	10	212	85	115	9	108	76	
TOT PCT	24.6	59.9	15.4	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+	48+					00	03	09	15
N	1.7	.9	.0	.0	.0	.0		2.6	5.3	3.8	2.7	1.6	2.2	
NE	3.4	2.4	.0	.0	.0	.0		5.8	6.8	6.7	6.1	4.8	3.2	
E	8.0	8.7	.2	.0	.0	.0		16.9	7.2	21.0	15.2	16.9	16.4	
SE	11.7	19.0	.7	.0	.0	.0		31.5	8.2	30.3	29.9	34.1	33.2	
S	8.7	6.5	.1	.0	.0	.0		15.3	8.8	13.9	16.6	14.9	14.7	
SW	4.2	4.3	.3	.0	.0	.0		8.7	7.3	6.0	10.6	12.5	5.3	
W	3.0	1.6	.3	.0	.0	.0		4.9	6.8	5.1	5.0	4.8	4.6	
NW	1.9	1.2	.0	.0	.0	.0		3.2	6.1	2.1	2.3	2.2	4.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	11.2							11.2	.0	10.1	11.4	8.1	13.6	
TOT OBS	400	331	12	0	0	0	743	138	6.3	138	297	124	184	
TOT PCT	53.8	44.5	1.6	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	

OCTONEP

PEKIJDI (PRIMARY) 1912-1972
(OVER-ALL) 1854-1972AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-24	22-33	34-47					
00003	10.1	15.2	60.0	13.8	.0	.0	.0	.0	6.3	100.0	138
06009	11.4	13.1	59.3	16.2	.0	.0	.0	.0	6.5	100.0	297
12015	8.1	13.7	55.6	22.6	.0	.0	.0	.0	7.3	100.0	124
18021	13.6	12.5	63.0	10.3	.3	.0	.0	.0	6.1	100.0	184
TOT	43	100	445	114	1	0	0	0	6.5		743
PCT	11.2	13.5	59.9	15.3	.1	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.1	1.5	3.3	4.9	6.9
NE	.0	.7	2.3	3.6	6.6	6.8
E	1.5	3.9	6.7	7.7	19.8	6.1
SE	1.5	7.2	8.8	10.9	28.4	6.0
S	1.0	1.0	4.3	2.5	8.8	5.8
SW	.0	.6	3.8	3.2	7.6	6.9
W	.6	.0	1.0	2.5	4.1	6.4
NW	.0	.6	1.2	2.2	4.0	6.8
VAR	.0	.0	.0	.0	.0	.7
CALM	2.2	1.7	3.3	3.7	10.9	5.4
TOT OBS	13	30	67	71	181	6.2
TOT PCT	7.2	16.6	37.0	39.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 290	300 590	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.7	1.5	.6	.0	.0	.0	.0	2.2	
NE	.0	.0	.6	1.1	.7	.6	.1	.0	.0	.0	3.6	
E	.0	.0	.0	1.0	4.0	.4	1.0	.0	.0	.0	15.9	
SE	.0	.0	.6	4.1	4.4	2.3	.0	.6	.0	.0	16.4	
S	.0	.0	.0	1.0	.8	.0	.0	.0	.0	.0	6.9	
SW	.0	.0	.0	1.2	.6	.6	1.1	.0	.0	.0	6.1	
W	.0	.0	.0	1.5	.6	.0	.0	.0	.0	.0	1.9	
NW	.0	.0	.0	.6	.1	2.2	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	1.7	.0	.6	.0	1.1	.0	6.6	
TOT OBS	0	2	23	26	12	5	1	2	0	110	181	
TOT PCT	.0	.0	1.1	12.7	14.4	6.6	2.8	.6	1.1	.0	60.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>5500	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>6000	7.8	9.4	9.4	9.4	9.4	9.4	9.4	9.4
>10000	18.2	21.9	23.4	23.4	23.4	24.0	24.0	24.0
>15000	24.5	31.8	35.4	35.4	35.4	35.9	35.9	35.9
>20000	24.5	32.8	36.5	36.5	36.5	37.0	37.0	37.0
>25000	24.5	32.8	36.5	36.5	36.5	37.0	37.0	37.0
>30000	24.5	32.8	36.5	36.5	36.5	37.0	37.0	37.0
TOTAL	47	63	70	70	70	71	71	71

TOTAL NUMBER OF OBS: 192

PCT FREQ NM <5/8: 63.0

TABLE 7A

PERCENTAGE FREQ OF LD+ CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
9.8	11.4	18.4	18.9	11.3	8.5	8.5	9.7	13.2	.0	412

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1854-1972

OCTOBER

AREA 0609 KARIMATA STRAIT
1.85 108.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.7	.2	.2	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.7	.2	.4	.0	.0	.0	.0	1.5	
2<5	PCP	.4	.0	.0	.7	.0	.0	.4	.0	.0	.0	1.5	
	NO PCP	.0	.0	1.7	.9	.0	.0	.0	.0	.0	.0	2.6	
	TOT %	.4	.0	1.7	1.7	.0	.0	.4	.0	.0	.0	4.1	
5<10	PCP	.4	.7	.0	3.4	.6	.0	.6	.7	.0	.0	7.4	
	NO PCP	.0	1.1	.7	4.1	2.6	3.0	3.0	.0	.0	.7	19.1	
	TOT %	.4	1.8	1.4	7.5	3.1	3.2	3.6	.7	.0	.7	22.5	
10+	PCP	.4	.4	.4	.7	.4	.8	.9	.5	.0	.7	5.2	
	NO PCP	2.9	3.1	17.0	20.3	6.5	4.8	1.8	2.7	.0	6.6	65.7	
	TOT %	3.2	3.5	17.3	21.0	6.9	5.6	2.7	3.1	.0	7.4	70.9	
TOT OBS													271
TOT PCT		4.0	5.4	20.8	31.3	10.4	9.4	4.6	5.9	.0	8.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.0	.1	.1	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	1.0	
2<5	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.7	1.2	.2	.0	.5	.0	.0	.0	2.6	
	11-21	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	1.1	1.8	.2	.0	.5	.0	.0	.0	3.8	
5<10	0-3	.0	.2	.0	.7	.0	.2	.7	.0	.0	.5	2.4	
	4-10	.4	1.0	1.7	3.9	2.9	1.7	1.5	.1	.0	.0	13.2	
	11-21	.0	.5	.2	1.9	.4	.4	.1	.4	.0	.0	3.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	1.7	2.0	6.6	3.2	2.3	2.3	.5	.0	.5	19.5	
10+	0-3	.8	.4	2.0	2.0	.7	.5	.7	.5	.0	10.1	17.8	
	4-10	1.7	2.6	13.0	13.3	7.9	4.1	.4	1.9	.0	.0	45.0	
	11-21	.2	.1	1.9	6.8	1.4	.7	.6	.1	.0	.0	11.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.8	3.1	16.9	22.1	9.9	5.3	1.7	2.4	.0	10.1	74.5	
TOT OBS													416
TOT PCT		3.4	4.8	20.7	31.2	13.0	8.2	4.0	2.9	.0	10.6	100.0	

OCTOBER

 PERIOD: (P=IMBRY) 1012-1972
 (C/EP=ALL) 1956-1972

 AREA 0009 KARIMATA STRAIT
 1.63 108.0E

TABLE 10

 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
 OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	149	239	579	979	1079	3429	4099	6499	7099					51.6	48.2	56
0600	.0	.0	.0	12.1	15.5	1.7	1.7	.0	.0	.0	.0	.0	.0	31.0	69.0	58
1200	.0	.0	2.3	6.7	7.0	4.3	2.8	.0	.0	.0	.0	.0	.0	18.6	81.4	43
1800	.0	.0	.0	11.8	11.8	3.9	2.0	2.0	2.0	.0	.0	.0	.0	39.3	60.7	51
TOT	0	0	2	28	27	14	5	1	2					72	136	208
PCT	.0	.0	1.0	11.1	10.6	5.4	2.4	.5	1.0	.0	.0	.0	.0	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	11+	TOTAL OBS
0000	1.0	1.0	.0	3.0	13.5	10.0	104
0600	.0	1.4	1.4	2.2	19.0	75.4	138
1200	.0	2.2	.0	6.0	25.2	66.7	84
1800	.0	.0	1.0	4.5	22.3	71.4	112
TOT	1	4	4	17	88	324	438
PCT	.2	.9	.9	3.9	20.1	74.0	100.0

TABLE 12

 CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
 CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ 4405+	NM <5/8 AND 5+	TOTAL OBS
0000	.0	3.8	13.9	34.0	47.2	53
0600	.0	.0	15.4	19.2	65.4	52
1200	.0	2.6	10.3	12.8	76.9	39
1800	.0	.0	16.8	18.8	62.5	48
TOT	0	3	31	42	119	197
PCT	.0	1.6	15.1	21.9	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	3.7	.5	1.4	14	6.5
80/84	.0	.0	.0	.0	2.8	27.0	44.5	5.1	175	81.4
75/79	.0	.0	.0	.0	.0	2.3	4.2	5.6	26	12.1
70/74	.0	.0	.0	.0	.0	.0	71	110	26	12.1
TOT	.0	.0	.0	.0	1.7	33.0	5.2	12.2	215	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.0	2.2	2.4	.3	.0	.0	.0	.0	.5
3.3	3.0	17.6	23.7	9.2	7.0	6.7	2.4	.0	7.9
.5	1.4	1.4	2.9	.3	2.6	.7	1.9	.0	.5
4.2	5.5	21.2	29.1	9.9	9.5	7.4	4.3	.0	8.3

TABLE 15

MEAS. EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	88	86	84	82	77	75	74	81.5	142
0600	95	92	88	83	78	77	75	83.2	291
1200	80	85	84	82	79	78	77	81.9	129
1800	84	83	83	82	77	75	74	81.3	186
TOT	95	92	85	82	78	74	74	82.1	748

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	1.0	26.8	55.4	16.1	83	56		56
0600	.0	.0	9.2	43.1	36.9	10.8	79	65		65
1200	.0	.0	1.9	28.8	55.8	13.5	82	52		52
1800	.0	.0	1.4	27.0	63.5	7.9	82	69		69
TOT	0	0	9	75	124	28	81	236		236

PERIOD: (PRIMARY) 1912-1972
(L 50-LL) 1894-1972

MOYCEP

AREA 0009 KARIMATA STRAIT
1.85 108.02

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	84 87	89 92	TOT	N FOG	NJ FOG
5	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.8	.4	.4	3	.0	1.3
3	.0	.0	.4	1.8	.0	4	.0	1.7
2	.0	.4	3.8	1.8	.0	19	.0	8.1
1	.0	.4	8.1	.8	.0	22	.4	8.9
0	.0	.8	17.4	1.7	.0	47	.4	19.5
-1	.0	1.3	17.8	.8	.0	47	.4	19.1
-2	.0	2.1	11.9	.0	.0	33	.0	14.0
-3	.0	3.4	4.2	.0	.0	18	.0	7.0
-4	.4	6.4	2.3	.0	.0	22	.0	9.3
-5	.4	2.1	1.3	.0	.0	9	.0	3.9
-6	.4	2.1	.0	.0	.0	6	.0	2.5
-7/-8	.4	1.7	.0	.0	.0	5	.0	2.1
TOTAL	4	49	161	20	2	236	4	232
PCT	1.7	20.8	68.2	8.5	.8	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	2.0
1-2	.0	1.8	.9	.0	.0	.0	2.6	.0	2.0	.2	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.9	.0	.0	.0	2.5	1.1	4.6	1.1	.0	.0	.0	6.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	.0	.0	.0	.0	.0	1.5	.0	.9	.0	.0	.0	.0	.9
1-2	.0	15.1	3.7	.0	.0	.0	18.9	.0	7.5	2.2	.0	.0	.0	9.6
3-4	.0	1.5	2.6	.0	.0	.0	4.2	.0	5.5	7.5	.0	.0	.0	12.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	16.7	6.4	.0	.0	.0	24.6	.0	13.8	9.6	.0	.0	.0	23.5

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0000 KARIMATA STRAIT
1.85 108.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	1.8	
1-2	.0	6.1	.0	.0	.0	.0	6.1	.0	3.9	.2	.0	.0	.0	4.2	
3-4	.0	.0	2.0	.0	.0	.0	2.0	.0	1.8	.2	.0	.0	.0	2.0	
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	7.9	3.7	.0	.0	.0	11.6	.9	6.6	1.3	.0	.0	.0	8.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	1.8	
1-2	.0	3.1	1.3	.0	.0	.0	5.3	.0	.9	.2	.0	.0	.0	1.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	1.3	.0	.0	.0	5.3	.0	1.8	.2	.0	.0	.0	2.9	86.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	19.8	5.2	.0	.0	.0	.0	25.0	
1-2	.9	39.7	8.6	.0	.0	.0	49.1	
3-4	.0	10.3	12.1	.0	.0	.0	22.4	
5-6	.0	.0	3.4	.0	.0	.0	3.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.7	55.2	24.1	.0	.0	.0	100.0	116

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.0	14.4	23.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	2
6-7	.0	1.2	4.3	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	14.1	3.7	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	1
TOTAL	36	64	53	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	2
PCT	22.1	39.3	32.5	4.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA
N	5.6	.0	4.2	.0	.0	.0	.0	9.7	4.2	8.3	.0	.0	.0	.0	77.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.5
E	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	87.5
SE	3.9	5.2	.0	.0	.0	.0	.0	9.1	.0	3.2	.0	.0	.0	.0	87.7
S	3.0	3.0	.0	.0	.0	.0	.0	6.1	.0	5.3	.0	.0	.0	.0	88.0
SW	3.9	1.3	.0	.0	.0	.0	2.6	7.7	.6	8.4	.0	.0	.0	.0	85.8
W	6.3	4.2	.0	.0	.0	.0	.0	10.6	7.4	7.9	.0	.0	.0	.0	74.1
NW	2.3	1.1	.6	.0	.0	.0	.0	4.0	5.7	1.1	.0	.0	.0	.0	89.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.5
TOT PCT TOT OBS	3.5 259	2.3	.4	.0	.0	.0	.4	6.6	3.1	6.2	.0	.0	.0	.0	84.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY ALWG DUST SNOW	NO SIG WEA
0000	5.2	2.0	1.3	.0	.0	.0	.0	9.1	2.0	2.0	.0	.0	.0	.0	85.7
0600	2.7	6.8	.0	.0	.0	.0	1.4	11.0	4.1	1.4	.0	.0	.0	.0	84.9
1200	3.4	.0	.0	.0	.0	.0	.0	3.4	1.7	5.1	.0	.0	.0	.0	89.8
1800	1.5	1.5	.0	.0	.0	.0	.0	3.0	3.0	16.7	.0	.0	.0	.0	77.3
TOT PCT TOT OBS	3.3 275	2.9	.4	.0	.0	.0	.4	6.9	2.9	6.2	.0	.0	.0	.0	84.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.7	5.0	.9	.0	.0	.0		7.5	6.2	5.3	4.2	7.7	6.8	6.3	.0	6.2	10.9	
NE	2.1	3.8	.2	.0	.0	.0		6.0	4.8	6.7	4.2	6.8	5.3	3.9	.0	8.7	4.6	
E	1.2	3.2	.9	.1	.0	.0		4.9	6.3	7.1	4.2	6.0	5.3	4.7	14.3	1.4	2.9	
SE	3.3	7.6	1.3	.0	.0	.0		12.2	5.9	11.9	25.0	10.1	13.7	15.4	35.7	10.1	10.1	
S	3.5	8.3	.7	.1	.0	.0		12.7	5.7	12.6	33.3	13.7	12.6	11.0	35.7	11.7	9.5	
SW	2.4	11.3	1.0	.1	.0	.0		14.9	6.5	15.8	29.2	14.8	13.7	16.7	.0	11.7	15.2	
W	2.3	9.8	4.1	.1	.0	.0		15.3	7.5	12.2	.0	16.0	14.7	17.7	.0	17.7	15.8	
NW	1.4	11.5	1.2	.0	.0	.0		14.2	6.9	13.3	.0	13.5	17.4	14.0	14.3	17.0	12.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	12.3							12.3	.0	12.1	.0	11.4	10.5	10.2	.0	15.6	18.4	
TOT OBS	231	462	66	1	0	0	762		5.6	14.1	12	184	95	127	7	109	87	
TOT PCT	30.3	60.6	9.7	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	7-16	17-27	28-40	41+						00	03	06	12	18
N	5.0	2.4	.1	.0	.0			7.5	6.2	8.0	7.4	6.0	8.2		
NE	4.9	1.2	.0	.0	.0			6.0	4.8	6.5	6.3	3.7	6.9		
E	3.2	1.5	.2	.0	.0			4.9	6.3	6.9	5.7	5.2	2.0		
SE	8.1	4.0	.1	.0	.0			12.2	5.9	12.9	11.3	16.4	10.1		
S	8.8	3.7	.0	.1	.0			12.7	5.7	14.2	13.4	12.3	10.7		
SW	8.8	5.7	.3	.0	.0			14.9	6.5	16.8	14.4	15.9	13.3		
W	7.8	7.1	.3	.0	.0			13.3	7.5	11.3	13.6	16.8	16.8		
NW	8.0	6.0	.1	.0	.0			14.2	6.9	12.3	14.8	14.0	13.1		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	12.3							12.3	.0	11.1	11.1	9.7	16.8		
TOT OBS	510	242	9	1	0	762			5.6	153	279	134	196		
TOT PCT	66.9	31.8	1.2	.1	.0			100.0		100.0	100.0	100.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	11.1	22.2	59.5	7.2	.0	.0	.0	.0	5.5	100.0	153
0600	11.1	14.3	65.2	8.6	.7	.0	.0	.0	5.9	100.0	279
1200	9.7	19.4	61.9	8.2	.7	.0	.0	.0	5.6	100.0	134
1800	16.6	18.9	54.1	10.2	.0	.0	.0	.0	5.3	100.0	196
TOT	94	137	462	86	3	0	0	0	5.6		762
PCT	12.3	18.0	60.6	8.7	.4	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	1.8	3.4	1.5		5.6
NE	.0	.4	3.9	.0		5.7
E	.0	.5	1.8	.6		6.0
SE	.0	.0	4.8	3.1		6.9
S	1.2	1.4	3.1	3.9		5.8
SW	.1	1.8	8.7	6.0		6.4
W	1.6	1.2	12.4	7.3		6.3
NW	1.2	1.2	9.1	4.5		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	3.6	4.8	1.8		5.0
TOT OBS	11	21	87	48	167	6.0
TOT PCT	6.6	12.6	52.1	28.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

0-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.4	.4	.0	.4	.0	.4	.0	5.4	
.0	.0	.0	.0	.1	.0	.6	.0	.6	.0	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
.0	.0	.0	.6	3.0	1.2	.0	.0	.0	.0	3.1	
.6	.0	.0	1.2	.0	.0	.0	.0	.0	.0	8.2	
.0	.0	.0	3.3	.1	2.8	.1	.0	.0	.0	10.2	
.0	.0	.0	3.1	3.9	2.4	1.0	.0	.0	.0	12.1	
.0	.0	.9	1.3	3.1	1.9	.0	.1	.0	.0	9.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.8	1.2	1.2	.0	.0	.0	.0	7.8	
1	.0	0	16	18	18	8	0	2	0	104	
.6	.0	.0	9.6	10.8	10.8	4.8	.0	1.2	.0	62.3	167

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	4.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
>2000	13.3	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
>1000	21.4	26.6	27.2	27.2	27.2	27.2	27.2	27.2	27.2
>600	28.3	35.8	37.0	37.0	37.0	37.0	37.0	37.0	37.0
>300	28.3	35.8	37.0	37.0	37.0	37.0	37.0	37.0	37.0
>150	28.3	35.8	37.0	37.0	37.0	37.0	37.0	37.0	37.0
>0	28.3	35.8	37.0	37.6	37.6	37.6	37.6	37.6	37.6
TOTAL	49	62	64	65	65	65	65	65	65

TOTAL NUMBER OF OBS: 173

PCT FREQ NH <5/8: 62.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.1	8.9	17.4	18.9	15.3	10.5	7.9	11.1	7.9	.0	190

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1955-1971

NOVEMBER

AREA 0009 KARIMATA STRAIT
1.8S 107.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS													
TOT PCT													

258

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS													
TOT PCT													

450

NOVEMBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH 54/6) AND
OCCURRENCE OF NH 45/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH 45/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.9	10.7	7.1	5.4	.0	1.2	.0	33.9	60.1	56
06009	2.1	.0	.0	8.5	8.5	12.8	8.5	.0	.0	.0	40.4	59.6	47
12015	.0	.0	.0	9.5	9.5	4.8	2.4	.0	2.4	.0	28.6	71.4	2
18021	.0	.0	.0	10.3	12.8	15.4	.0	.0	.0	.0	38.5	61.5	39
TOT	1	0	0	17	19	18	8	0	2	0	65	119	184
PCT	.5	.0	.0	9.2	10.3	9.8	4.3	.0	1.1	.0	35.3	64.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.9	1.8	14.7	82.6	109
06009	.0	.0	1.4	2.8	21.4	74.5	145
12015	.0	.0	2.2	2.2	18.7	76.7	90
18021	.0	.0	.0	1.6	18.0	80.3	122
TOT	0	0	9	10	84	265	466
PCT	.0	.0	1.1	2.1	18.5	78.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH 54/8) BY HOUR

HOURL (GMT)	<150 450YD	<600 41	<1000 45	1000+ AND 5+	NH 45/8 AND 5+	TOTAL OBS
00003	.0	.0	9.4	26.4	64.2	53
06009	2.3	2.3	11.6	32.6	55.8	43
12015	.0	.0	10.3	20.5	69.2	39
18021	.0	.0	13.2	26.3	60.5	38
TOT	1	1	19	46	178	173
PCT	.6	.6	11.0	26.6	62.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.2	2.2	.0	.0	8	4.5
80/84	.0	.0	.0	.0	1.1	33.7	41.6	10.7	155	87.1
75/79	.0	.0	.0	.0	.0	1.1	6.2	1.1	15	8.4
TOTAL	0	0	0	0	6	86	85	21	178	100.0
PCT	.0	.0	.0	.0	3.4	37.1	47.8	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	1.0
80/84	6.5	3.1	3.7	10.7	11.0	11.4	15.2	16.7	.0	9.0
75/79	.0	.0	.0	1.4	1.4	2.1	1.3	.8	.0	.0
TOTAL	7.0	4.2	3.7	12.1	12.9	14.6	16.7	18.1	.0	10.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	86	85	82	78	76	76	81.5	152
06009	92	91	88	83	79	77	75	82.8	241
12015	88	87	86	82	78	76	77	81.9	132
18021	89	84	84	82	78	76	75	81.2	194
TOT	95	89	86	82	78	76	75	82.0	759

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.0	33.3	51.0	13.7	83		91	
06009	.0	.0	9.8	39.2	47.1	3.9	79		21	
12015	.0	.0	.0	39.5	41.9	18.6	82		49	
18021	.0	.0	.0	32.6	58.1	9.3	82		49	
TOT	0	0	6	60	93	21	82		188	

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1855-1971

NOV-REP

TABLE 17

AREA 0049 KARIMATA STRAIT
1.85 107.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 86	86 87	89 92	TOT FOG	NO FOG
11/13	.0	.0	.0	.0	.5	1	.5
0	.0	.0	.5	.0	.0	1	.5
4	.0	.0	1.5	.0	.0	4	1.5
3	.0	.0	.5	.5	.0	2	1.0
2	.0	1.0	1.5	.0	.0	5	2.4
1	.0	3.0	1.0	.0	.0	10	6.9
0	.5	17.0	1.9	.0	.0	40	19.4
-1	.0	16.0	1.0	.0	.0	35	17.0
-2	4.9	18.4	.0	.0	.0	48	23.3
-3	4.9	7.3	.0	.0	.0	25	12.1
-4	4.4	2.9	.0	.0	.0	15	7.3
-5	3.5	1.5	.0	.0	.0	11	5.3
-6	1.9	.0	.0	.0	.0	4	1.9
-7/-8	2.4	.0	.0	.0	.0	5	2.4
TOTAL	47	140	17	1	1	206	206
PCT	22.8	68.0	8.3	.5	.5	100.0	100.0

PERIOD (OVER-ALL) 1962-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0	3.0	.0	.0	.0	.0	.0	3.0
1-2	1.0	6.0	.0	.0	.0	.0	7.0	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	6.0	.0	.0	.0	.0	8.0	3.0	3.0	.0	.0	.0	.0	6.0

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	4.0	.0	.0	.0	.0	5.3	1.3	2.7	.0	.0	.0	.0	4.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.0	.0	1.3	.0	.0	6.6	1.3	6.7	2.7	.0	.0	.0	10.7

PERIOD: (COVER-ALL) 1963-1971

NOVEMBER

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.3	2.7	.0	.0	.0	.0	4.0
1-2	1.0	5.0	.0	.0	.0	.0	6.0	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	1.3	1.3	.0	.0	.0	2.7	.0	1.3	1.3	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.3	1.3	.0	.0	.0	8.7	1.7	7.0	1.3	.0	.0	.0	10.0

TOTAL														
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	6.3	.0	.0	.0	.0	6.3	.0	3.0	.0	.0	.0	.0	9.0
3-4	1.3	2.0	1.0	.0	.0	.0	4.3	.0	1.3	1.3	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.7	1.0	.0	.0	.0	12.0	.0	16.0	1.9	.0	.0	.0	18.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	27.3	11.7	.0	.0	.0	.0	39.0	
1-2	5.2	35.1	1.3	.0	.0	.0	41.6	
3-4	1.3	10.4	5.2	1.3	.0	.0	18.2	
5-6	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	33.8	57.1	7.8	1.3	.0	.0	100.0	77

PERIOD: (COVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	87+	TOTAL	MEAN HGT
<6	9.1	3.8	17.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	2
6-7	.0	1.5	3.6	4.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
8-9	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
10-11	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
17-19	10.0	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	0
TOTAL	36	49	30	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	2
PCT	27.3	37.1	22.7	9.8	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA CODE KARIWATA STRAIT
1,85 107.9F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG JUST	NO SIG WEA
N	4.6	3.4	1.7	.0	.0	.0	.0	9.7	3.4	3.4	.0	.0	.0	.0	85.1
NE	4.6	.0	2.4	.0	.0	.0	.0	7.1	.0	2.4	.0	.0	.0	.0	92.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	7.4	.0	1.9	.0	.0	.0	.0	9.3	7.4	9.3	.0	.0	.0	.0	74.1
W	10.7	9.1	2.0	.0	.0	.0	.0	20.8	5.4	6.7	.0	.0	.0	.0	67.1
NW	6.6	3.7	.0	.0	.0	.0	.0	10.3	4.1	5.1	.0	.0	.0	.0	76.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	88.2
TOT PCT	6.0	3.5	1.0	.0	.0	.0	.0	10.4	5.0	5.5	.0	.0	.0	.0	79.6
TOT OBS:	201														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRPL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	5.4	3.6	1.8	.0	.0	.0	.0	10.7	3.6	.0	.0	.0	.0	.0	85.7
0600	10.2	5.1	1.7	.0	.0	.0	.0	16.9	8.5	1.7	.0	.0	.0	.0	74.6
1200	6.1	4.1	.0	.0	.0	.0	.0	10.2	2.0	12.2	.0	.0	.0	.0	75.3
1800	2.4	.0	.0	.0	.0	.0	.0	2.4	4.8	9.5	.0	.0	.0	.0	83.3
TOT PCT TOT OBS:	6.3	3.4	1.0	.0	.0	.0	.0	10.7	4.9	5.3	.0	.0	.0	.0	79.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.4	9.7	4.9	.1	.0	.0	16.0	9.0	18.8	25.0	17.4	15.8	14.2	12.5	15.1	12.7			
NE	1.0	2.2	.9	.0	.0	.0	3.6	6.5	5.5	.0	4.5	1.6	1.6	12.5	4.6	2.5			
E	.3	.5	.1	.0	.0	.0	.9	5.6	.0	.0	1.2	1.1	.8	12.5	1.0	1.3			
SE	.1	1.1	.1	.0	.0	.0	1.3	6.2	2.6	.0	.9	.0	.4	.0	2.0	1.9			
S	.7	7.8	.7	.0	.0	.0	3.7	5.7	3.3	.0	5.8	.5	4.7	.0	4.1	1.9			
SW	1.8	7.3	2.4	.0	.0	.0	11.5	7.8	9.7	.0	12.6	13.0	12.6	.0	9.7	17.7			
W	1.9	13.3	4.9	.7	.1	.0	20.9	9.1	18.2	12.5	17.7	23.9	25.0	12.5	21.7	22.8			
NW	2.5	22.5	8.5	.6	.2	.0	34.4	9.2	34.4	62.5	31.0	37.5	39.3	50.0	33.7	38.0			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	7.7						7.7	.0	8.1	.0	9.0	6.5	7.3	.0	8.2	6.3			
TOT OBS	122	417	187	17	2	0	703	5.0	136	4	167	92	123	4	98	79			
TOT PCT	17.4	59.3	21.6	1.4	.3	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3a

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	48+				00	03	09	12	18
N	5.6	9.1	1.4	.0	.0	.0	16.0	9.0	18.9	16.8	14.2	14.0		
NE	1.8	1.8	.0	.0	.0	.0	3.6	6.5	5.4	3.5	2.0	3.7		
E	.6	.3	.0	.0	.0	.0	.9	5.6	.0	1.2	1.2	1.1		
SE	.3	.5	.0	.0	.0	.0	1.3	6.2	2.5	.6	.4	2.0		
S	2.8	.9	.1	.0	.0	.0	3.7	5.7	3.2	4.0	4.5	3.1		
SW	5.0	6.0	.4	.0	.0	.0	11.5	7.8	8.9	12.7	12.2	11.0		
W	8.1	10.6	1.9	.4	.0	.0	20.9	9.1	18.0	19.9	24.6	22.2		
NW	11.8	19.6	2.6	.2	.1	.0	34.4	9.2	35.2	33.3	33.9	35.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	7.7						7.7	.0	7.9	8.1	7.1	7.3		
TOT OBS	310	343	45	4	1	0	703	5.0	140	259	127	177		
TOT PCT	44.1	48.8	6.4	.6	.1	.0	100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

DECEMBER

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	7.9	12.1	60.7	18.0	.0	.7	.0	7.5	100.0	140
04009	8.1	8.9	58.3	22.8	1.5	.4	.0	8.2	100.0	239
12015	7.1	8.7	63.0	18.9	2.4	.0	.0	7.9	100.0	127
18021	7.3	9.6	57.1	24.3	1.7	.0	.0	8.0	100.0	177
TOT	34	68	417	152	10	2	0	4.0		703
PCT	7.7	9.7	59.3	21.6	1.4	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBSCD	MEAN CLOUD COVER
V	1.0	1.3	14.8	4.7		6.2
NE	.2	.7	2.5	1.0		6.2
E	.0	.7	.0	.0		3.0
SE	.0	.0	.0	.7		8.0
S	.0	.0	3.7	1.3		7.0
SW	.3	.7	4.9	1.5		6.3
W	2.2	1.3	8.2	5.5		6.2
NW	.3	6.0	18.3	8.1		6.1
VAR	.0	.0	.0	.0		.0
CALM	.0	2.7	6.0	1.3		5.6
TOT OBS	6	20	87	36	149	6.1
TOT PCT	4.0	13.4	58.4	24.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 290	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
V	.0	.7	.0	.5	3.0	1.4	.5	.0	.0	.0	15.3	
NE	.0	.2	.0	.2	1.2	.0	.0	.0	.0	.0	2.2	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
SE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.7	.7	.5	.0	.0	.0	.0	1.8	
W	.0	.0	.5	2.0	.7	.3	.0	.0	.0	.0	5.7	
NW	.0	.0	.2	2.0	2.7	.5	.0	.0	.0	.0	11.6	
VAR	.0	.0	.0	.0	5.0	.2	.2	.0	.0	.0	7.2	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	6	20	87	36	149	149	149	149	149	149	149	
TOT PCT	4.0	13.4	58.4	24.2	100.0	66.4	100.0					

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>5000	>5000	>5000	>5000	>5000	>5000
OR >6500	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >5000	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >3500	.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >2000	5.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
OR >1000	15.9	20.5	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
OR >600	25.2	30.5	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
OR >300	26.5	32.5	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
OR >150	27.2	33.1	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
OR >0	27.2	33.1	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
TOTAL	41	50	51	51	51	51	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 151

PCT FREQ NM <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.2	5.5	22.0	20.1	15.2	12.2	10.4	8.5	4.9	.0	164

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

DECEMBER

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.0
	TOT %	.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.9	.0	.5	.0	.0	.0	1.0
	TOT %	.0	.0	.0	.0	.0	.9	.0	.5	.0	.0	.0	1.0
5<10	PCP	1.1	.1	.0	.0	.0	.9	2.3	2.3	.0	.0	.0	6.5
	NO PCP	3.3	.8	.5	.5	.5	.3	2.5	2.8	.0	.5	.5	11.0
	TOT %	4.4	.9	.5	.5	.5	.8	5.0	5.0	.0	.5	.5	17.5
10+	PCP	1.0	.3	.0	.0	.0	.1	1.4	1.3	.0	.0	.0	4.0
	NO PCP	16.1	4.1	.8	.5	3.3	5.4	12.3	26.1	.0	8.0	.0	76.5
	TOT %	17.1	4.4	.8	.5	3.3	5.5	13.6	27.4	.0	8.0	.0	80.5
TOT OBS													
TOT PCT													
		21.9	5.3	1.3	.5	3.8	6.8	18.6	33.5	.0	8.5	100.0	200

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	.5	.0	.0	.3	.3	.3	.1	.1	.0	.0	1.8	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.0	.0	.3	.3	.3	.1	.5	.0	.0	2.1	
5<10	0-3	.3	.2	.3	.0	.0	.0	.0	.0	.0	.3	1.0	
	4-10	2.0	.5	.0	.0	.3	.3	2.0	2.9	.0	.0	7.9	
	11-21	.7	.0	.0	.0	.0	.1	1.2	.7	.0	.0	2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.9	.7	.3	.0	.3	.4	3.1	3.5	.0	.3	11.5	
10+	0-3	1.0	1.2	.0	.0	.7	1.2	1.8	3.1	.0	8.1	17.0	
	4-10	10.3	2.1	.4	.4	2.4	5.4	11.4	20.5	.0	.0	52.9	
	11-21	6.2	.9	.0	.0	.0	.5	2.0	5.7	.0	.0	15.2	
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	17.6	4.1	.4	.4	3.0	7.1	15.2	29.4	.0	8.1	85.3	
TOT OBS													
TOT PCT													
		21.4	4.8	.7	.7	3.5	7.7	18.8	34.0	.0	8.4	100.0	382

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1856-1971

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.3	8.5	17.0	4.3	.0	.0	.0	.0	34.0	66.0	47
06009	.0	2.2	.0	8.7	13.0	4.3	.0	.0	.0	.0	28.3	71.7	46
12015	.0	.0	.0	8.6	14.3	5.7	2.9	.0	.0	2.9	34.3	65.7	35
18021	.0	.0	3.4	13.8	13.8	6.9	.0	.0	.0	.0	37.9	62.1	29
TOT	0	1	3	15	23	8	1	0	0	1	52	105	157
PCT	.0	.6	1.9	9.6	14.6	5.1	.6	.0	.0	.6	33.1	66.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.0	.0	.0	5.4	14.0	80.6	93
06009	.0	.0	.7	.7	9.0	89.6	134
12015	.0	2.7	.7	1.4	12.2	83.8	74
18021	.0	1.2	.0	1.2	12.8	84.9	86
TOT	0	3	1	8	45	330	387
PCT	.0	.8	.3	2.1	11.6	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.5	15.9	18.2	65.9	44
06009	.0	2.3	11.4	18.2	70.5	44
12015	.0	.0	8.8	26.5	64.7	34
18021	.0	3.4	17.2	20.7	62.1	29
TOT	0	4	20	31	100	151
PCT	.0	2.6	13.2	20.5	66.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.7	2.7	.0	.0	11	7.5
80/84	.0	.0	.0	.0	27.9	40.8	10.9	.0	117	79.6
75/79	.0	.0	.0	.0	.0	6.1	6.1	.0	18	12.2
TOTAL	0	0	0	3	46	73	25	.0	147	100.0
PCT	.0	.0	.0	.0	2.0	31.3	49.7	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	3.4	.0	.0	.0	.5	.2	.7	.7	.0	2.0
80/84	15.1	4.8	.7	.7	3.9	5.8	13.6	27.7	.0	7.5
75/79	1.7	1.0	.0	.0	.7	.9	4.6	3.4	.0	.0
TOTAL	20.9	5.8	.7	.7	5.1	6.8	18.9	31.8	.0	9.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	85	84	81	77	74	74	81.1	139
06009	92	90	86	82	77	72	70	81.8	258
12015	92	91	84	81	78	77	76	81.6	127
18021	87	84	83	81	77	75	74	80.8	178
TOT	92	87	85	81	77	74	70	81.4	702

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	29.5	54.5	15.9	83	44		
06009	.0	.0	4.8	31.0	42.9	21.4	82	42		
12015	.0	.0	3.0	33.3	51.5	12.1	81	33		
18021	.0	.0	.0	31.3	53.1	15.6	83	32		
TOT	0	0	3	47	76	25	82	151		

DPCFMR

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1896-1971AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THF OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	83 88	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.6	1	.0	.6
7/8	.0	.0	1.3	.0	.0	2	.0	1.3
5	.0	.0	3.2	.0	1.3	7	.0	4.4
4	.0	.0	.0	1.3	.0	2	.0	1.3
3	.0	.0	.6	1.9	.0	4	.0	2.5
2	.0	.6	3.8	.6	.0	8	.0	5.1
1	.0	.6	7.0	9.8	.0	18	.0	11.4
0	.0	.0	13.3	.6	.0	22	.0	13.9
-1	.0	1.3	18.4	1.9	.0	34	.0	21.5
-2	.0	1.9	12.7	.0	.0	23	.0	14.6
-3	.0	4.4	6.3	.0	.0	17	.0	10.8
-4	.0	3.2	2.5	.0	.0	9	.0	5.7
-5	.0	4.4	.6	.0	.0	8	.0	5.1
-6	.0	.6	.6	.0	.0	2	.0	1.3
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	1	27	111	16	3	158	0	158
PCT	.6	17.1	70.3	10.1	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.1	1.9	.0	.0	.0	.0	3.1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	10.6	1.7	.0	.0	.0	12.2	1.1	2.5	.0	.0	.0	.0	3.6
3-4	.0	1.9	3.3	.8	.0	.0	6.1	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	14.4	6.1	.8	.0	.0	22.5	1.1	2.8	1.1	.0	.0	.0	5.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

AREA 0009 KARIMATA STRAIT
1.85 107.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.4	.0	.0	.0	.0	4.4	.0	3.3	.0	.0	.0	.0	3.3
3-4	.0	2.2	.0	.0	.0	.0	2.2	.0	2.2	1.1	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7	.3	5.8	1.4	.0	.0	.0	7.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.1	1.1	.0	.0	.0	.0	2.2	.0	3.3	.0	.0	.0	.0	3.3	
1-2	.8	6.4	.0	.0	.0	.0	7.2	3.3	5.0	3.9	.0	.0	.0	12.2	
3-4	.0	1.1	.0	.0	.0	.0	1.1	.0	8.1	3.3	.0	.0	.0	11.7	
5-6	.0	.8	.8	.0	.0	.0	1.7	.0	.0	2.2	.0	.0	.0	2.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	9.4	.8	.0	.0	.0	12.2	3.3	16.4	9.4	.3	.0	.0	29.4	83.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.6	6.5	.0	.0	.0	.0	26.1	
1-2	6.5	31.5	5.4	.0	.0	.0	43.5	
3-4	.0	15.2	8.7	1.1	.0	.0	25.0	
5-6	.0	1.1	3.3	.0	.0	.0	4.3	
7	.0	.0	1.1	.0	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	26.1	54.3	18.5	1.1	.0	.0	100.0	92

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.6	28.1	2.4	5.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	2
6-7	.0	1.7	.8	6.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
8-9	.0	.8	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	15.7	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	0
TOTAL	27	38	37	14	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	121	2
PCT	22.3	31.4	30.6	11.6	1.7	1.7	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	5.4	5.2	2.0	.0	.0	.0	.0	13.0	1.3	2.5	.0	.0	.0	.0	74.5	
NE	5.1	1.0	3.5	.0	.0	.0	.0	9.6	2.6	5.6	2.4	.0	.0	.0	80.2	
E	1.9	2.0	2.7	.0	.0	.0	.0	6.4	2.5	4.4	.1	.0	.3	.0	86.9	
SE	3.4	1.0	1.3	.0	.0	.0	.0	5.6	2.0	2.7	.8	.0	.9	.0	88.7	
S	3.6	1.4	.5	.0	.0	.0	.0	5.5	1.1	3.9	.1	.0	.5	.0	89.5	
SW	9.7	5.1	3.5	.0	.0	.0	.2	17.9	5.1	4.9	.0	.0	.2	.3	72.3	
W	7.5	3.6	2.1	.0	.0	.0	.0	13.1	5.2	2.9	.0	.1	.0	.0	78.7	
NW	8.9	4.0	.6	.0	.0	.0	.0	13.6	10.1	5.9	.5	.1	.8	.0	69.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.4	3.0	.8	.0	.0	.0	.0	10.1	.7	12.3	.0	.0	.0	.0	76.8	
TOT PCT	4.0	2.1	1.0	.0	.0	.0	.	7.2	2.7	4.7	.6	.	.3	.	84.8	
TOT OBS:	3277															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	4.5	2.9	1.6	.0	.0	.0	.0	8.9	4.0	1.3	.6	.0	.2	.0	85.1
0600	4.6	3.2	1.0	.0	.0	.0	.1	8.9	3.1	.3	1.0	.1	.3	.0	86.0
1215	2.4	1.2	.6	.0	.0	.0	.0	4.3	1.1	7.0	.4	.0	.1	.0	87.2
1800	4.2	1.1	1.0	.0	.0	.0	.0	6.2	2.0	12.0	.4	.0	.6	.1	79.5
TOT PCT	4.0	2.2	1.1	.0	.0	.0	.	7.3	2.6	4.9	.6	.	.3	.	84.6
TOT OBS	3399														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.4	5.6	1.8	.1	.	.0		8.8	6.7	8.9	10.4	10.0	9.1	8.8	7.6	6.8	8.0
NE	1.0	3.0	.5	.	.0	.0		4.5	6.5	4.5	3.2	5.5	4.6	3.7	4.7	4.4	3.5
E	1.4	7.4	2.4	.1	.0	.0		11.4	7.2	12.3	14.0	13.0	12.0	9.6	12.0	9.3	10.1
SE	1.8	15.6	4.2	.3	.0	.0		25.9	7.6	27.9	28.7	25.2	24.5	25.6	29.1	26.3	25.3
S	1.8	7.1	1.4	.	.0	.0		10.5	6.6	10.4	11.1	9.3	10.4	11.1	14.1	11.8	11.1
SW	1.1	5.0	.9	.	.0	.0		7.0	7.1	5.8	7.8	6.8	8.9	7.8	7.8	6.1	7.9
W	1.4	4.1	1.8	.1	.	.0		9.4	7.9	8.0	11.0	8.6	9.4	10.0	12.0	10.5	10.7
NW	1.5	9.8	3.2	.1	.	.0		14.7	7.6	15.1	13.3	14.3	15.5	14.9	11.8	14.9	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	7.1	.5	7.3	5.5	8.6	.8	10.0	9.5
TOT OBS							8796		7.5	1521	134	2328	1507	1470	106	1277	953
TOT PCT	19.1	59.6	27.5	.7	.	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	4.0	4.5	.3	.	.0	8.8	6.7	9.0	9.7	8.7	7.3	
NE	2.7	1.7	.1	.	.0	4.5	6.5	4.4	5.2	3.8	4.0	
E	4.8	6.1	.5	.	.0	11.4	7.2	12.5	12.7	9.7	9.7	
SE	8.0	16.0	1.8	.1	.0	24.9	7.6	28.0	25.0	25.8	25.9	
S	5.6	4.6	.3	.	.0	10.5	6.6	10.4	9.6	11.3	11.5	
SW	3.9	3.0	.2	.	.0	7.0	7.1	5.9	7.4	7.8	6.9	
W	4.5	4.3	.5	.	.	9.4	7.9	8.3	8.9	10.1	10.6	
NW	5.9	8.2	.6	.	.	14.7	7.6	14.9	14.7	14.7	14.5	
VAR	.0	.0	.0	.	.0	.0	.0	.0	.0	.0	.0	
CALM	7.8					7.8	.0	6.6	6.8	6.0	9.8	
TOT OBS						8796		7.5	1653	3335	1576	2230
TOT PCT	47.0	48.4	4.3	.2	.		100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	6.6	11.9	61.4	19.8	.3	.1	.0	7.5	100.0	1655
0600	6.8	11.4	59.2	21.5	1.0	.1	.0	7.7	100.0	3335
1200	8.0	11.4	58.8	21.1	.7	.0	.0	7.5	100.0	1576
1800	9.8	10.7	59.6	19.3	.7	.0	.0	7.2	100.0	2230
TOT								7.5		
PCT	7.8	11.3	59.6	20.5	.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	1.1	1.0	5.2	2.0	5.0	
NE	.4	.8	2.0	1.1	5.7	
E	2.0	2.6	4.8	2.1	4.9	
SE	4.6	8.0	10.3	3.8	5.6	
S	1.4	2.1	3.5	2.3	5.5	
SW	.3	.8	2.6	1.9	6.1	
W	.7	1.3	4.4	3.2	5.7	
NW	1.0	2.7	7.6	3.9	6.2	
VAR	.0	.0	.0	.0	.0	
CALM	1.4	4.6	3.1	1.7	5.3	
TOT OBS					2084	5.4
TOT PCT	12.9	21.5	43.5	22.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.2	.8	1.2	.5	.3	.	.	.	7.0	
NE	.0	.0	.2	.3	.4	.2	.3	.	.	.	2.9	
E	.1	.7	.2	.5	1.3	.7	.1	.	.0	.1	8.4	
SE	.0	.0	.3	1.6	2.3	1.2	.1	.1	.0	.1	21.0	
S	.1	.0	.2	.7	.7	.7	.	.0	.0	.0	6.6	
SW	.0	.0	.0	.5	.7	.6	.1	.0	.0	.0	3.6	
W	.0	.	.2	1.1	1.3	.8	.2	.	.0	.0	5.9	
NW	.0	.0	.2	1.0	2.5	1.1	.3	.0	.	.2	10.0	
VAR	.0	.0	.7	.0	.0	.0	.0	.	.0	.0	.0	
CALM	.0	.1	.1	.7	1.0	.3	.2	.	.1	.	5.3	
TOT OBS	.2	.1	1.5	7.1	11.5	6.0	1.8	.2	.3	.4	71.0	2084
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM)					OR >5000	OR >0
				OR >1	OR >1/2	OR >1/4	OR >5000	OR >0		
>5000	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8
>3500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>2000	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>1000	7.2	8.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
>600	16.3	19.3	19.9	20.0	20.1	20.1	20.1	20.1	20.1	20.1
>300	21.2	25.9	26.8	26.9	27.0	27.1	27.1	27.1	27.1	27.1
>150	22.1	27.2	28.2	28.3	28.4	28.5	28.5	28.5	28.5	28.5
>0	22.2	27.3	28.3	28.4	28.5	28.6	28.6	28.6	28.6	28.6

TOTAL NUMBER OF OBS: 2143

PCT FREQ NM <5/8: 71.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.5	13.3	21.3	19.9	13.0	7.0	7.4	5.7	8.0	.1	2315

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.5		
	TOT %	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.6		
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2		
	NO PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.3		
	TOT %	.0	.1	.0	.1	.1	.0	.1	.0	.0	.0	.5		
2<5	PCP	.1	.0	.0	.1	.0	.1	.1	.1	.0	.0	.5		
	NO PCP	.2	.0	.3	.3	.2	.2	.2	.2	.0	.0	1.6		
	TOT %	.2	.1	.3	.4	.2	.3	.4	.2	.0	.1	2.1		
5<10	PCP	.4	.2	.3	.5	.3	.3	.6	.6	.0	.1	3.4		
	NO PCP	1.2	.5	1.3	5.8	1.7	1.2	2.0	2.0	.0	.8	16.7		
	TOT %	1.6	.7	1.6	6.4	1.9	1.5	2.5	2.7	.0	1.0	20.0		
10+	PCP	.3	.2	.3	.5	.1	.4	.4	.6	.0	.1	3.0		
	NO PCP	7.4	3.3	8.6	20.9	7.2	3.9	6.3	11.0	.0	5.0	73.8		
	TOT %	7.7	3.5	8.9	21.5	7.3	4.3	6.8	11.6	.0	5.1	76.7		
TOT OBS														3269
TOT PCT		9.6	4.4	10.9	28.6	9.6	6.2	9.8	14.7	.0	6.2	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	
	4-10	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.4	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.1	.0	.1	.1	.0	.0	.0	.6	
2<5	0-3	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1	.0	.4	
	4-10	.2	.0	.1	.3	.1	.1	.2	.1	.0	.0	1.3	.0	
	11-21	.0	.0	.1	.2	.0	.0	.1	.0	.0	.0	.4	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.3	.5	.2	.2	.3	.2	.0	.1	2.1	.0	
5<10	0-3	.2	.2	.2	.2	.3	.1	.2	.2	.0	.8	.0	2.4	
	4-10	.7	.3	.7	2.3	.9	.9	1.0	1.5	.0	.0	.0	8.4	
	11-21	.3	.1	.4	2.0	.3	.3	.5	.5	.0	.0	.0	4.4	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	
	TOT %	1.3	.6	1.3	4.6	1.5	1.3	1.8	2.1	.0	.8	15.3	.0	
10+	0-3	1.2	.8	1.1	1.4	1.1	.8	1.0	1.1	.0	6.7	.0	15.1	
	4-10	5.2	2.4	6.5	13.5	5.8	3.4	4.6	8.5	.0	.0	.0	49.6	
	11-21	1.7	.3	2.1	7.3	1.2	.4	1.0	2.4	.0	.0	.0	16.3	
	22+	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	8.0	3.5	9.7	22.3	8.0	4.6	6.5	12.0	.0	6.7	81.3	.0	
TOT OBS														3240
TOT PCT		9.6	4.2	11.4	27.7	9.8	6.2	8.8	14.7	.0	7.6	100.0		

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0000 KARIMATA STRAIT
1.85 108.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.8	7.4	12.0	6.3	2.2	.3	.3	.5	31.3	68.7	614
06009	.2	.3	1.4	6.5	10.9	5.7	1.5	.0	.2	.1	26.8	73.2	617
12015	.0	.2	.4	5.0	9.7	4.0	1.6	.2	.6	.7	22.2	77.8	526
18021	.3	.0	1.7	7.3	10.4	7.4	1.2	.3	.3	.4	29.3	70.7	506
TOT PCT	.2	.1	1.3	6.6	10.8	5.8	1.6	.2	.3	.4	27.4	72.6	2263 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.2	.5	2.3	13.6	89.0	1255
06009	.1	.6	.5	1.7	14.9	82.3	1664
12015	.1	.7	1.0	3.1	16.4	78.7	1080
18021	.1	.4	.4	1.6	17.5	80.1	1363
TOT PCT	.2	.5	.6	2.1	15.5	81.1	5362 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	2.6	10.7	21.6	67.7	586
06009	.2	2.5	10.2	18.6	71.2	378
12015	.0	.6	6.7	17.5	75.8	495
18021	.3	2.0	11.1	19.9	69.0	484
TOT PCT	.2	1.9	9.7	19.3	70.9	2149 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.2	.0	.0	.4	
85/89	.0	.0	.0	.1	1.5	5.7	1.7	.2	9.2	
80/84	.0	.0	.0	.0	1.2	32.0	40.5	7.1	80.9	
75/79	.0	.0	.0	.0	.0	1.0	5.4	3.0	9.4	
70/74	.0	.0	.0	.0	.0	.0	.1	.1	.2	
TOTAL PCT	.0	.0	.0	.1	2.8	38.9	47.8	10.4	2394 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY T-AP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0
85/89	.9	.4	1.8	2.9	.8	.4	.4	.9	.0	.7
80/84	7.4	3.4	8.2	24.3	8.1	4.5	7.1	11.8	.0	6.0
75/79	1.0	.7	.7	1.5	.8	.7	1.8	2.0	.0	.4
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	9.5	4.5	10.8	28.8	9.6	5.7	9.3	14.7	.0	7.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	87	85	82	78	75	72	81.6	1692
06009	95	91	88	85	79	76	70	83.1	3296
12015	95	87	85	82	79	77	69	81.9	1581
18021	90	84	81	81	78	76	71	81.2	2233
TOT	95	89	86	82	78	76	69	82.1	8762

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.5	32.0	55.0	11.5	82	617		
06009	.0	.4	7.0	47.8	39.6	9.2	79	681		
12015	.0	.0	1.6	42.4	46.9	9.1	81	571		
18021	.0	.0	.6	30.8	56.9	11.6	82	614		
TOT	0	3	71	963	1192	254	81	2483		

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973AREA 0009 KARIMATA STRAIT
1.85 DEGREE

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	74 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.1	*	5	.0	.2
9/10	.0	.0	.0	.0	*	.2	.1	10	.0	.4
7/8	.0	.0	.0	.1	.2	.2	.1	17	.0	.6
6	.0	.0	.0	.1	.2	.2	.0	14	.0	.5
5	.0	.0	.0	.5	.4	.5	.0	35	.0	1.3
4	.0	.0	.0	.5	1.0	.2	.0	46	.0	1.7
3	.0	.0	.0	.8	1.2	.1	.0	60	.0	2.1
2	.0	.0	.2	4.0	1.8	*	.0	169	.1	5.9
1	.0	*	.4	6.5	2.1	*	.0	254	.1	9.1
0	.0	.0	1.7	17.6	1.6	.0	.0	591	.1	20.8
-1	.0	.1	2.3	19.2	1.4	.0	.0	536	.1	19.0
-2	.0	.1	2.8	12.7	.2	.0	.0	449	*	15.8
-3	.0	.0	3.2	1.6	.1	.0	.0	249	.0	8.9
-4	.0	.1	2.5	3.5	.1	.0	.0	175	*	6.2
-5	.0	.1	1.9	1.5	.1	.0	.0	98	.0	3.6
-6	.0	.2	1.1	.4	.0	.0	.0	49	.0	1.7
-7/-8	.0	.2	1.1	.2	.0	.0	.0	41	.0	1.4
-9/-10	*	.2	*	*	.0	.0	.0	13	.0	.4
-11/-13	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL								2815		
PCT	.1	1.0	17.5	69.4	10.4	1.5	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.5	*	.0	.0	.0	.9	.5	.3	*	.0	.0	.0	.8
1-2	.4	4.6	.4	.0	.0	.0	5.7	.2	2.2	.1	.0	.0	.0	2.6
3-4	.0	1.3	1.4	.1	.0	.0	2.8	.0	.5	.4	*	.0	.0	.9
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.3	2.4	.1	.0	.0	9.8	.7	3.1	.6	*	.0	.0	4.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	.9	.1	.0	.0	.0	1.6	.2	1.4	.2	.0	.0	.0	1.7
1-2	.4	4.5	1.1	.0	.0	.0	6.0	.1	9.8	3.0	.0	.0	.0	12.9
3-4	.0	1.3	1.7	.2	.0	.0	3.1	.0	3.6	6.4	.0	.0	.0	10.0
5-6	.0	.1	.6	.0	.0	.0	.7	.0	.2	2.5	.1	.0	.0	2.8
7	.1	.0	.2	.0	.0	.0	.3	.0	.1	.4	.2	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.7	3.7	.2	.0	.0	11.8	.3	15.1	12.5	.3	.0	.0	28.1

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9	.2	.6	.0	.0	.0	.0	.8
1-2	.2	4.4	.1	.0	.0	.0	4.7	.1	2.3	.2	.0	.0	.0	2.5
3-4	.0	1.3	1.1	.0	.0	.0	2.3	.0	.8	.3	.0	.0	.0	1.1
5-6	.0	.3	.7	.0	.0	.0	1.0	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.6	2.1	.0	.0	.0	9.2	.3	3.8	.6	.0	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.5	.0	.0	.0	.0	.9	.2	1.1	.0	.0	.0	.0	1.3	
1-2	.4	3.4	.5	.0	.0	.0	4.2	.7	5.6	1.5	.0	.0	.0	7.7	
3-4	.1	1.3	.6	.0	.0	.0	2.3	.0	2.4	2.1	.1	.0	.0	4.6	
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.1	.8	.1	.0	.0	1.0	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	5.6	1.6	.0	.0	.0	8.0	.9	9.1	4.6	.1	.0	.0	14.8	90.6

WIND SPEED (KTS) V SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	12.9	3.7	.3	.0	.0	.0	18.9	385
1-2	2.9	36.2	6.9	.0	.0	.0	46.1	
3-4	.2	12.5	13.8	.3	.0	.0	26.8	
5-6	.0	.8	5.5	.2	.0	.0	6.5	
7	.1	.1	1.3	.2	.0	.0	1.5	
8-9	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.1	55.4	27.8	.7	.0	.0	100.0	1405

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	31.3	23.1	5.7	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1288	3
6-7	.1	2.4	4.4	6.9	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	4
8-9	.0	.3	.8	.7	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
10-11	.0	.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	3
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDEX	10.6	1.5	7.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	1
TOTAL PCT	17.1	35.9	30.9	11.3	3.4	.7	1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1683	3

AREA 0009 KARIMATA STRAIT
1.85 108.0E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA THP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.2	.5	.5	8.1	7.9	5.0	1.3	3.4	4.8	1.3	.1	.0	19	2.2
85/86	3.3	4.1	8.1	27.8	36.9	23.8	9.4	3.8	4.4	13.7	14.8	8.3	1090	13.1
83/84	19.7	21.4	36.7	41.2	41.4	44.8	34.6	18.9	27.1	38.2	48.4	38.2	2774	34.1
81/82	45.1	48.8	40.4	19.6	11.0	23.9	47.2	62.8	52.6	39.6	29.7	42.9	3195	39.3
79/80	23.7	19.0	12.4	2.7	1.3	1.6	6.7	12.0	17.1	5.0	5.7	3.8	724	8.9
77/78	4.5	4.8	2.0	.4	.3	.3	.1	1.7	2.4	.6	.6	2.2	135	1.7
75/76	.6	1.2	.0	.0	.0	.0	.1	.3	.5	.6	.6	.2	20	.2
73/74	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	627	588	663	695	610	707	697	782	745	681	690	636	8116	100.0
MEAN	81.3	81.4	82.2	83.8	84.2	83.6	82.5	81.8	81.9	82.8	83.0	82.3	82.3	

TABLE 21

PRESSURE (MPa)

AVERAGE BY HOUR (GMT)

AVERAGE OF MONTHS										TOTAL
MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	083
JAN	1010	1010	1010	1009	1010	1011	1010	1010	1010	2478
FEB	1010	1009	1010	1008	1009	1012	1009	1009	1010	2730
MAR	1010	1010	1010	1008	1009	1010	1010	1009	1010	3191
APR	1010	1008	1009	1008	1009	1010	1009	1008	1009	2999
MAY	1010	1010	1009	1008	1009	1009	1009	1008	1009	2821
JUN	1010	1010	1010	1008	1009	1009	1010	1009	1010	3030
JUL	1010	1010	1010	1009	1009	1011	1010	1010	1010	3181
AUG	1011	1010	1010	1008	1009	1010	1010	1009	1010	3500
SEP	1011	1010	1010	1008	1010	1009	1010	1010	1010	2771
OCT	1010	1011	1009	1010	1010	1012	1010	1010	1010	3171
NOV	1010	1009	1009	1008	1009	1009	1009	1009	1009	2891
DEC	1010	1010	1009	1008	1009	1010	1009	1009	1009	2911
ANN	1010	1010	1010	1008	1009	1010	1010	1009	1010	3510
TOT	714	95	1003	1004	64	92	617	186		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1005	1006	1007	1009	1010	1011	1012	1013	1014
FEB	1004	1005	1007	1008	1010	1011	1012	1013	1014
MAR	1005	1006	1006	1009	1011	1011	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1012	1013	1014
MAY	1005	1005	1006	1008	1009	1010	1012	1013	1014
JUN	1005	1006	1007	1009	1010	1011	1012	1013	1014
JUL	1006	1006	1007	1009	1010	1011	1012	1013	1014
AUG	1006	1005	1007	1009	1010	1011	1013	1014	1015
SEP	1006	1006	1007	1009	1010	1011	1013	1014	1015
OCT	1005	1006	1007	1009	1010	1011	1013	1014	1015
NOV	1005	1005	1007	1008	1010	1011	1012	1013	1014
DEC	1005	1005	1007	1008	1009	1011	1012	1012	1013

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	6.3	12.7	.0	.0	.0	.0	.0	19.0	4.8	12.7	.0	.0	.0	.0	69.5
NE	30.0	.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	.0	.0	.0	70.0
E	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
SE	28.6	.0	.0	.0	.0	.0	.0	28.6	.0	14.3	.0	.0	.0	.0	66.7
S	5.1	20.3	5.1	.0	.0	.0	.0	30.4	.0	7.6	.0	.0	.0	.0	67.1
SW	21.8	3.6	3.6	.0	.0	.0	.0	29.1	3.6	5.5	3.6	.0	1.8	.0	61.8
W	11.5	16.9	.0	.0	.0	.0	.0	28.5	.0	5.2	2.8	.0	.0	.0	65.9
NW	7.7	10.3	1.1	.0	.0	.0	.0	19.1	.3	4.6	.0	.0	.0	.0	76.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
TOT PCT	11.3	12.0	1.4	.0	.0	.0	.0	24.7	.7	5.7	1.4	.0	.4	.0	69.6
TOT OBS:	283														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	10.0	11.7	.0	.0	.0	.0	.0	21.7	1.7	3.3	1.7	.0	1.7	.0	70.0
06009	8.9	15.2	2.5	.0	.0	.0	.0	26.6	1.3	.0	.0	.0	.0	.0	72.2
12015	11.6	7.2	1.4	.0	.0	.0	.0	20.3	.0	7.2	.0	.0	.0	.0	73.9
18021	17.6	12.1	1.1	.0	.0	.0	.0	30.8	.0	12.1	3.3	.0	.0	.0	62.6
TOT PCT TOT OBS:	12.4 299	11.7	1.3	.0	.0	.0	.0	25.4	.7	6.0	1.3	.0	.3	.0	69.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	1.2	3.2	.6	.4	.0	.0		5.4	7.6	3.5	.0	5.0	6.1	8.8	.0	6.7	2.7
NE	.7	1.5	.1	.0	.0	.0		2.2	6.5	1.0	.0	.9	3.0	4.3	.0	3.4	.5
E	.9	1.4	.1	.0	.0	.0		2.3	5.2	1.5	.0	1.4	3.0	3.1	.0	4.3	.9
SE	1.2	2.1	.0	.0	.0	.0		3.3	4.6	4.5	.0	.5	1.5	2.7	.0	5.6	5.5
S	1.2	4.9	.0	.0	.0	.0		6.1	5.7	7.4	.0	2.7	.5	4.3	12.5	8.8	12.3
SW	1.6	5.5	1.8	.0	.0	.0		8.9	7.2	13.4	8.3	5.7	3.0	5.5	20.8	10.1	15.0
W	3.9	18.2	12.5	1.5	.1	.0		36.3	10.2	37.6	50.0	42.0	40.4	28.5	37.5	29.7	40.5
NW	1.9	14.0	12.5	2.1	.4	.0		30.9	11.4	27.2	41.7	34.5	40.4	40.4	29.2	24.4	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	4.0	.0	7.3	2.0	2.3	.0	6.9	5.5
TOT OBS	117	947	188	27	3	0	682		9.0	101	6	110	99	128	12	116	110
TOT PCT	17.2	50.9	27.6	4.0	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.7	2.3	.4	.0	.0		5.4	7.6	3.3	5.5	8.0	4.8		
NE	1.0	1.1	.1	.0	.0		2.2	6.5	.9	1.9	3.9	2.0		
E	1.7	.6	.1	.0	.0		2.3	5.2	1.4	2.2	2.9	2.7		
SE	2.7	.6	.0	.0	.0		3.3	4.6	4.2	1.0	2.5	5.5		
S	4.1	2.0	.0	.0	.0		6.1	5.7	7.0	1.7	5.0	10.5		
SW	5.1	3.6	.3	.0	.0		8.9	7.2	13.1	4.4	6.8	12.5		
W	11.4	18.9	5.6	.4	.0		36.3	10.2	38.3	41.3	29.3	35.0		
NW	6.2	16.5	5.5	.5	.1		30.9	11.4	28.0	37.3	39.5	20.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.5						4.5	.0	3.7	4.8	2.1	6.2		
TOT OBS	283	310	82	6	1	682		9.0	107	269	140	226		
TOT PCT	41.5	45.5	12.0	.9	.1		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	3.7	15.9	43.9	32.7	1.9	1.9	.0	9.2	100.0	107
0600Z	4.8	10.5	46.9	34.0	3.3	.5	.0	9.7	100.0	209
1200Z	2.1	11.4	55.7	24.3	6.4	.0	.0	9.2	100.0	140
1800Z	6.2	13.7	54.9	21.2	4.0	.0	.0	8.2	100.0	226
TOT	31	86	347	188	27	3	0	9.0		682
PCT	4.5	12.6	50.9	27.6	4.0	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.5	2.6	1.1		5.0
NE	.0	.0	.0	.0		.0
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	.0		.0
S	.0	.0	2.6	1.1		7.3
SW	.0	3.0	3.7	7.8		6.8
W	2.6	9.6	14.9	13.1		6.3
NW	1.9	4.9	23.9	8.2		6.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	4	10	32	21	67	6.3
TOT PCT	6.0	14.9	47.8	31.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	5.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.5	1.1	.0	.0	.0	.0	1.1	
.0	.0	.0	3.0	4.5	.4	.0	.0	.0	.0	6.7	
.0	.0	3.0	6.0	4.5	4.1	.0	.0	.0	.0	18.7	
.0	.0	1.5	.4	3.0	9.3	.0	.0	.0	.0	24.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	3	7	9	10	.0	.0	.0	.0	38	67
.0	.0	4.5	10.4	13.4	14.9	.0	.0	.0	.0	56.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	• OR >10	• OR >5	• OR >2	• OR ≥1	• OR ≥1/2	• OR ≥1/4	• OR ≥50YD	• OR ≥0	
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	
• OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	
• OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	
• OR >2000	13.4	14.9	14.9	14.9	14.9	14.9	14.9	14.9	
• C >1000	20.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4	
• OR >600	28.4	37.3	38.8	38.8	38.8	38.8	38.8	38.8	
• OR >300	29.9	40.3	41.8	41.8	41.8	43.3	43.3	43.3	
• OR >150	29.9	40.3	41.8	41.8	41.8	43.3	43.3	43.3	
• OR >0	29.9	40.3	41.8	41.8	41.8	43.3	43.3	43.3	
TOTAL	70	27	28	28	28	29	29		

TOTAL NUMBER OF OBS: 67

PCT FREQ NH <5/8: 56.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	8.3	15.5	14.3	19.0	8.3	3.6	17.9	13.1	.0	84

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0010 SOUTHWEST JAVA SEA
5.5S 108.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	1.1	
2<5	PCP	.4	.0	.0	.4	.0	.4	.0	.4	.0	.0	1.4	
	NO PCP	.0	.0	.0	.0	.2	.2	1.4	.0	.0	.0	1.8	
	TOT %	.4	.0	.0	.4	.2	.6	1.4	.4	.0	.0	3.2	
5<10	PCP	.5	.5	.2	.4	2.1	1.1	6.4	4.7	.0	.4	16.3	
	NO PCP	2.1	.5	.4	2.3	1.6	2.6	11.0	8.2	.0	1.8	30.4	
	TOT %	2.7	1.1	.5	2.7	3.7	3.9	17.5	12.9	.0	2.1	46.6	
10+	PCP	.2	.0	.0	.4	.0	.9	3.4	.9	.0	.0	5.7	
	NO PCP	2.4	.7	.4	.4	3.1	3.9	14.0	16.9	.0	.7	42.4	
	TOT %	2.6	.7	.4	.7	3.1	4.8	17.4	17.8	.0	.7	48.1	
TOT PCT		5.6	1.8	.9	3.7	7.0	9.7	37.5	31.0	.0	2.8	100.0	283

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.1	.1	.1	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.1	.4	.5	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.3	.6	.3	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.1	.6	.4	.0	.0	.0	1.1	
	11-21	.3	.0	.0	.0	.0	.1	.7	.3	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.3	.0	.0	.3	.1	.7	1.4	.6	.0	.0	3.2	
5<10	0-3	.7	.1	.0	.8	.6	.4	1.5	.8	.0	1.7	6.6	
	4-10	1.1	.8	.4	1.2	2.3	1.7	7.1	3.8	.0	.0	18.5	
	11-21	.4	.0	.0	.0	.0	1.0	5.2	3.3	.0	.0	11.8	
	22+	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.8	
	TOT %	2.2	1.0	.4	2.1	2.9	3.0	14.3	10.2	.0	1.7	37.7	
10+	0-3	.3	.0	.3	.3	.6	1.6	.7	1.2	.0	1.4	6.3	
	4-10	2.0	1.4	.8	.6	1.9	2.5	10.9	9.4	.0	.0	29.5	
	11-21	.3	.0	.0	.0	.0	.6	7.6	9.4	.0	.0	17.9	
	22+	.0	.0	.0	.0	.0	.0	.8	1.7	.0	.0	2.5	
	TOT %	2.5	1.4	1.1	.8	2.5	4.7	20.0	21.7	.0	1.4	56.2	
TOT PCT		5.2	2.3	1.8	3.2	5.6	9.1	37.0	33.1	.0	3.0	100.0	369

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1896-1973AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 AN/ MGT	TOTAL OBS
00Z03	.0	.0	.0	4.5	13.6	9.1	.0	.0	.0	.0	27.3	72.7	22
06Z09	.0	.0	9.5	9.5	4.8	19.0	.0	.0	.0	.0	42.9	57.1	21
12Z15	.0	.0	5.3	5.3	26.3	10.5	.0	.0	.0	.0	47.4	52.6	19
18Z21	.0	.0	.0	20.0	.0	13.3	.0	.0	.0	.0	33.3	66.7	15
TOT	0	0	3	7	9	10	0	0	0	0	29	48	77
PCT	.0	.0	3.9	9.1	11.7	13.0	.0	.0	.0	.0	37.7	62.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.0	2.8	1.4	5.6	30.6	59.7	72
06Z09	2.8	.0	.0	1.9	35.8	59.4	106
12Z15	.0	.0	2.4	6.0	33.7	57.8	83
18Z21	.0	.0	1.7	1.7	48.3	48.3	118
TOT	3	2	5	13	145	211	379
PCT	.8	.5	1.3	3.4	38.3	55.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	10.5	24.3	63.2	19
06Z09	.0	11.1	22.2	27.8	50.0	18
12Z15	.0	5.6	11.1	38.9	50.0	18
18Z21	.0	.0	25.0	16.7	58.3	12
TOT	0	3	11	19	37	67
PCT	.0	4.5	16.4	28.4	55.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP °	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	1.0	.0	.0	2	1.0
85/89	.0	.0	.0	.0	1.0	1.5	1.0	1.5	10	5.0
80/84	.0	.0	.0	.0	.5	18.6	43.2	9.5	143	71.9
75/79	.0	.0	.0	.0	.0	.5	13.6	8.0	44	22.1
TOTAL	0	0	0	0	3	43	115	38	199	100.0
PCT	.0	.0	.0	.0	1.5	21.6	57.8	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.5	1.5	.0	.0
85/89	.5	.0	.5	.0	.0	.5	1.3	1.8	.0	.5
80/84	4.9	1.3	.5	3.0	5.4	3.5	23.2	27.5	.0	2.3
75/79	.9	.0	.0	.5	1.5	5.3	9.5	3.9	.0	.5
TOTAL	6.3	1.3	1.0	3.5	6.9	9.3	34.5	33.7	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	89	87	84	81	77	76	76	80.9	108
06Z09	91	90	86	82	79	76	74	82.3	202
12Z15	86	85	84	82	78	74	71	81.4	142
18Z21	87	85	83	81	77	74	72	80.3	234
TOT	91	87	85	81	77	75	71	81.2	686

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	.0	.0	15.0	62.5	22.5	85	40		
06Z09	.0	.0	3.5	35.1	49.1	12.3	82	57		
12Z15	.0	.0	.0	23.9	58.7	17.4	84	46		
18Z21	.0	.0	1.4	11.1	62.5	25.0	87	72		
TOT	0	0	3	45	125	42	85	215		

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.8E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.9	2	.0	.9
5	.0	.0	.0	.0	.4	1	.0	.4
3	.0	.0	.9	.9	.0	4	.0	1.8
2	.0	.0	1.3	.9	.0	5	.0	2.2
1	.0	.0	8.5	1.8	.0	23	.0	10.3
0	.0	4.5	13.5	2.2	.0	45	.0	20.2
-1	.0	3.1	15.2	.4	.0	42	.0	18.8
-2	.9	9.9	9.9	.0	.0	46	.0	20.6
-3	.9	4.0	2.7	.0	.0	17	.4	7.2
-4	.0	6.3	3.1	.0	.0	21	.0	9.4
-5	.4	2.2	1.8	.0	.0	10	.0	4.5
-6	1.8	.9	.0	.0	.0	6	.0	2.7
-7/-8	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	9	70	127	14	3	223	1	222
PCT	4.0	31.4	97.0	6.3	1.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.93 108.88

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	2.3
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	5.7	.0	.0	.0	.0	.0	5.7
3-4	.0	.0	.0	.0	.0	.0	.0	2.3	5.1	4.5	.0	.0	.0	.0	11.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.3	11.9	.0	.0	.0	.0	14.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	2.3	.0	.0	.0	10.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	1.7	.0	.0	.0	.0	4.0	4.5	7.4	5.1	.0	.0	.0	17.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	5.7	.0	.0	.0	.0	.0	5.7
1-2	2.3	6.3	4.5	.0	.0	.0	13.1	.0	5.1	4.5	.0	.0	.0	.0	11.9
3-4	.0	.0	5.7	.0	.0	.0	5.7	2.3	5.1	4.5	.0	.0	.0	.0	14.2
5-6	.0	.0	3.4	4.5	.0	.0	8.0	.0	2.3	11.9	.0	.0	.0	.0	10.3
7	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	8.0	2.3	.0	.0	.0	10.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	8.0	18.2	4.5	.0	.0	33.0	2.3	13.1	24.4	2.3	.0	.0	42.0	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.8	11.4	.0	.0	.0	.0	18.2	6.8
1-2	4.5	15.9	11.4	.0	.0	.0	31.8	4.5
3-4	2.3	2.3	20.5	.0	.0	.0	25.0	2.3
5-6	.0	.0	11.4	4.8	.0	.0	18.2	.0
7	.0	2.3	4.5	.0	.0	.0	6.8	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	13.6	31.8	47.7	6.8	.0	.0	100.0	44

PERIOD: (OVER-ALL) 1969-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	17.2	23.4	25.0	6.3	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
6-7	.0	1.6	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.0	6.3	.0	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	4.7	.0	.0	3.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	14	16	20	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
PCT	21.9	25.0	31.3	9.4	7.8	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1857-1973

FEBRUARY

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	2.9	.0	.0	.0	.0	89.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	30.8	.0	.0	.0	59.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	84.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	11.4	12.7	.0	.0	.0	.0	.0	24.1	.0	.0	.0	.0	.0	.0	75.9
W	11.3	5.7	.0	.0	.0	.0	.0	17.0	.7	6.1	.0	.0	.0	.0	80.4
NW	8.6	4.0	.0	.0	.0	.0	.0	12.6	1.1	4.2	3.5	.0	.0	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.6	4.3	.0	.0	.0	.0	.0	12.9	.7	4.3	2.6	.0	.0	.0	81.1
TOT OBS:	302														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	12.7	5.6	.0	.0	.0	.0	.0	18.3	1.4	1.4	1.4	.0	.0	.0	78.9
08209	9.1	3.4	.0	.0	.0	.0	.0	12.5	.0	1.1	3.4	.0	.0	.0	83.0
12015	5.9	1.4	.0	.0	.0	.0	.0	8.3	1.4	4.2	2.5	.0	.0	.0	84.7
18021	7.1	5.9	.0	.0	.0	.0	.0	12.9	.0	10.6	4.7	.0	.0	.0	76.5
TOT PCT	8.9	4.1	.0	.0	.0	.0	.0	13.0	.6	4.4	3.2	.0	.0	.0	80.7
TOT OBS:	316														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.2	3.2	.9	.2	.0	.0		6.4	6.7		4.3	13.2	3.6	13.6	8.4	9.3	4.8	2.4
NE	1.4	1.8	.0	.0	.0	.0		3.2	4.5		7.0	10.5	.8	3.7	6.9	.0	2.7	2.4
E	.6	1.1	.0	.0	.0	.0		1.7	4.5		1.9	.0	2.0	.5	1.9	.0	1.6	2.9
SE	.7	1.4	.0	.0	.0	.0		2.1	5.1		4.3	5.3	.4	1.9	1.9	.0	2.3	1.9
S	.8	2.2	.2	.0	.0	.0		3.2	6.1		5.2	5.3	1.6	.5	3.2	1.9	3.9	4.8
SW	1.5	6.2	1.2	.1	.0	.0		8.9	7.4		9.3	5.3	9.0	3.3	7.4	13.0	13.2	10.6
W	4.2	17.0	11.2	.7	.1	.0		33.2	9.6		38.9	26.3	35.0	22.0	27.5	44.4	32.6	43.3
NW	3.9	10.1	11.0	1.5	.0	.0		35.5	9.7		28.4	34.2	42.8	30.9	37.4	27.8	30.4	24.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0		5.5	.0	4.8	3.7	5.3	3.7	8.5	7.7
TOT OBS	158	390	184	19	1	0		752			110	19	125	107	131	27	129	104
TOT PCT	21.0	51.9	24.5	2.5	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	3.9	2.1	.5	.0	.0		6.4	6.7	5.6	8.2	8.5	3.8	
NE	2.6	.6	.0	.0	.0		3.2	4.5	3.3	2.2	5.7	2.6	
E	1.4	.3	.0	.0	.0		1.7	4.5	1.6	1.3	1.6	2.1	
SE	1.5	.6	.0	.0	.0		2.1	5.1	4.5	1.1	1.6	2.1	
S	1.8	1.4	.0	.0	.0		3.2	6.1	5.2	1.1	3.0	4.3	
SW	4.4	4.2	.4	.0	.0		8.9	7.4	8.7	6.4	8.4	12.0	
W	10.8	18.1	4.1	.3	.0		33.2	9.6	37.0	29.0	30.4	37.3	
NW	12.0	18.4	5.0	.1	.0		35.5	9.7	29.3	48.6	35.8	27.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.7						5.7	.0	4.7	4.3	5.1	8.2	
TOT OBS	332	342	75	3	0	752		8.2	129	232	158	233	
TOT PCT	44.1	45.5	10.0	.4	.0		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1913-1973
(COVER-ALL) 1857-1973

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.7	16.3	41.2	24.0	3.9	.0	.0	.0	8.6	100.0	129
06004	4.3	15.1	48.3	30.2	2.2	.0	.0	.0	8.8	100.0	232
12015	5.1	10.8	56.2	23.4	1.9	.0	.0	.0	8.2	100.0	158
18021	8.2	18.0	51.5	19.7	2.6	.0	.0	.0	7.6	100.0	233
TOT	43	115	390	184	19	1	0	8.2			752
PCT	5.7	15.3	51.9	24.5	2.5	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.9	2.3	1.1		5.5
NE	1.4	.0	1.1	.0		3.6
E	.0	.0	1.1	.0		5.0
SE	.0	2.6	.0	.0		3.1
S	1.1	.9	.0	.9		4.4
SW	.0	1.1	2.3	2.9		6.5
W	2.3	2.0	10.9	17.0		6.5
NW	4.6	2.9	21.3	16.1		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	1.1	.0		3.5
TOT OBS	10	9	35	33	87	6.0
TOT PCT	11.5	10.3	40.2	37.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	4.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
S	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	1.1	1.7	.0	.0	.0	.0	.0	3.4	
W	.0	.0	.0	5.5	5.7	3.4	.0	.0	.0	.0	17.5	
NW	.0	.0	.0	.3	7.8	6.9	2.3	1.1	.0	.0	26.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
TOT OBS	0	0	0	6	15	9	3	1	0	0	53	87
TOT PCT	.0	.0	.0	6.9	17.2	10.3	3.4	1.1	.0	.0	60.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3500	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
>2000	9.1	12.5	15.9	15.9	15.9	15.9	15.9	15.9
>1000	22.7	29.5	33.0	33.0	33.0	33.0	33.0	33.0
>600	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
>300	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
>150	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
>0	25.0	35.2	39.8	39.8	39.8	39.8	39.8	39.8
TOTAL	22	31	35	35	35	35	35	35

TOTAL NUMBER OF OBS: 88

PCT FREQ NM <5/8: 60.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	1.0	20.2	13.5	16.3	7.7	9.6	8.7	4.8	18.3	.0	104

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1857-1973

FEBRUARY

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.02

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.3	
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.1	1.2	.1	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	1.2	.1	.0	.0	1.3	
2<5	PCP	.0	.0	.0	.0	.0	.2	1.3	1.2	.0	.0	2.6	
	NO PCP	.2	.0	.0	.0	.0	.3	.5	1.3	.0	.0	2.3	
	TOT %	.2	.0	.0	.0	.0	.5	1.8	2.5	.0	.0	5.0	
5<10	PCP	.3	.0	.0	.0	.0	1.0	2.2	2.8	.0	.0	6.3	
	NO PCP	3.1	1.2	1.0	.5	.8	1.7	11.1	10.0	.0	1.0	30.5	
	TOT %	3.5	1.2	1.0	.5	.8	2.7	13.2	12.8	.0	1.0	36.8	
10+	PCP	.0	.0	.0	.0	.0	.3	1.0	.3	.0	.0	1.7	
	NO PCP	4.4	2.1	1.2	1.6	1.3	2.9	17.2	21.0	.0	1.7	53.3	
	TOT %	4.4	2.1	1.2	1.6	1.3	3.2	18.2	21.4	.0	1.7	55.0	
TOT OBS													302
TOT PCT		8.4	3.2	2.2	2.1	2.2	6.5	34.1	37.7	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.3	.5	.0	.0	1.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.0	.0	.3	.6	.0	.0	1.3	
1/2<1	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.0	.0	.0	.8	.5	.0	.0	1.5	
1<2	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.9	.1	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	
	TOT %	.0	.3	.0	.0	.0	.1	1.5	.2	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.6	1.0	.9	.0	.0	2.5	
	11-21	.1	.0	.0	.0	.0	.0	.6	.5	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
	TOT %	.1	.0	.0	.0	.0	.6	1.6	2.1	.0	.0	4.5	
5<10	0-3	1.1	.0	.3	.3	.3	.0	.9	2.0	.0	.8	5.5	
	4-10	.8	.9	.5	.1	.3	1.3	6.4	5.9	.0	.0	16.1	
	11-21	.5	.0	.0	.0	.1	.5	2.8	1.9	.0	.0	5.8	
	22+	.3	.0	.0	.0	.0	.3	.3	.8	.0	.0	1.5	
	TOT %	2.6	.9	.8	.4	.6	2.1	10.3	10.5	.0	.8	29.0	
10+	0-3	2.0	1.6	.4	.4	.0	.5	2.0	2.7	.0	3.0	11.8	
	4-10	2.2	.3	.6	.9	1.6	4.0	10.3	14.1	.0	.0	34.3	
	11-21	.5	.0	.0	.0	.0	.5	7.9	6.5	.0	.0	15.4	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	4.7	2.0	1.0	1.3	1.6	5.0	20.3	22.5	.0	3.0	61.7	
TOT OBS													397
TOT PCT		7.9	3.3	1.8	1.7	2.3	7.7	35.0	36.5	.0	3.8	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1857-1973AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	900+ 8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.3	4.2	12.5	4.2	.0	.0	.0	29.2	70.8	24
06009	.0	.0	.0	8.7	17.4	13.0	8.7	4.3	.0	.0	52.2	47.8	23
12015	.0	.0	.0	.0	25.0	15.0	.0	.0	.0	.0	40.0	60.0	20
18021	.0	.0	.0	6.9	17.2	.0	3.4	.0	.0	.0	27.6	72.4	29
TOT	0	0	0	6	15	9	4	1	0	0	35	61	96
PCT	.0	.0	.0	6.3	15.6	9.4	4.2	1.0	.0	.0	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.7	.0	4.7	3.3	24.4	62.8	86
06009	.7	2.5	.8	3.3	30.3	63.1	122
12015	1.1	2.2	.0	6.7	27.8	62.2	90
18021	.0	.9	2.7	4.4	36.3	55.8	113
TOT	5	5	8	18	124	250	411
PCT	1.2	1.5	1.9	4.4	30.2	60.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	16.7	12.5	70.8	24
06009	.0	.0	10.0	30.0	40.0	20
12015	.0	.0	5.0	38.9	55.6	18
18021	.0	.0	7.7	23.1	69.2	26
TOT	0	0	9	26	93	88
PCT	.0	.0	10.2	29.5	60.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.5	1	.5
85/89	.0	.0	.0	.0	.0	4.6	4.1	.5	18	9.2
80/84	.0	.0	.0	.0	.5	23.1	45.6	7.7	150	76.9
75/79	.0	.0	.0	.0	.0	7.7	4.1	.5	23	11.8
70/74	.0	.0	.0	.0	.0	.0	.0	1.5	3	1.5
TOTAL	0	0	0	1	54	112	28	195	195	100.0
PCT	.0	.0	.0	.0	.5	27.7	57.4	14.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0
85/89	.8	1.0	.5	.0	.3	.8	2.6	2.3	.0	1.0
80/84	6.5	2.3	2.1	1.8	1.9	4.6	24.6	31.0	.0	2.1
75/79	.0	.0	.0	.0	.0	.5	6.4	4.9	.0	.0
70/74	.0	.0	.0	.0	.0	.5	.9	.1	.0	.0
TOT	7.3	3.3	2.6	1.8	2.2	6.9	34.5	38.3	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	84	81	76	73	73	81.0	130
06009	91	89	87	82	78	75	75	82.4	226
12015	91	86	84	82	79	76	75	81.7	154
18021	85	84	83	81	77	74	72	80.5	236
TOT	91	88	85	81	77	74	72	81.4	746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.2	13.3	64.4	20.0	84	45
06009	.0	.0	.0	35.6	35.9	8.5	82	59
12015	.0	.0	.0	26.8	61.0	12.2	83	41
18021	.0	.0	1.6	32.3	48.4	17.7	84	62
TOT	0	0	2	58	117	30	83	207

FEBRUARY

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1957-1973

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.0	.0	.0	4	.8	.8
3	.0	.0	.0	1.2	.0	5	.0	2.0
2	.0	.0	3.2	1.2	.0	11	.0	4.5
1	.0	.0	7.3	3.2	.0	26	.8	9.7
0	.0	1.2	25.1	2.8	.0	72	1.2	27.9
-1	.0	1.6	11.3	.4	.0	33	.0	13.4
-2	.0	5.3	15.0	.0	.0	50	.0	20.2
-3	.0	2.4	2.4	.0	.0	12	.0	4.9
-4	.0	2.8	2.8	.0	.0	14	.0	5.7
-5	.0	2.4	.4	.0	.0	7	.0	2.8
-6	.8	1.2	.0	.0	.0	5	.0	2.0
-7/-8	.8	.4	.0	.0	.0	3	.0	1.2
-9/-10	.8	.0	.0	.0	.0	2	.0	.8
TOTAL	6		171		3	247	7	240
PCT	2.4	17.4	69.2	9.7	1.2	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	2.0	3.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	3.9	2.0	.0	.0	7.8	2.0	.0	.0	.0	.0	.0	2.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0010, SOUTHWEST JAVA SEA
5.55 108.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.0	.0	.0	.0	3.4	.0	4.9	.0	2.0	.0	.0	6.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	2.0	.0	.0	.0	8.8	.0	6.4	5.9	.0	.0	.0	12.7	.0
3-4	.0	3.4	2.0	.0	.0	.0	5.4	.0	5.9	7.8	.0	.0	.0	13.7	.0
5-6	.0	.0	3.4	.0	.0	.0	3.4	.0	2.0	4.4	2.0	.0	.0	8.3	.0
7	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	2.0	2.0	.0	.0	3.9	.0
8-9	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	3.9	6.4	.0	.0	10.3	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	8.8	11.3	1.5	.0	.0	23.0	.5	14.2	24.0	12.3	.0	.0	51.0	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	1.9	.0	.0	.0	.0	7.7	
1-2	1.9	23.1	9.6	.0	.0	.0	34.6	
3-4	.0	9.6	11.5	.0	.0	.0	21.2	
5-6	.0	1.9	7.7	3.8	.0	.0	13.5	
7	.0	.0	5.8	1.9	.0	.0	7.7	
8-9	.0	.0	3.8	9.6	.0	.0	13.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	36.5	38.5	17.3	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	27.1	15.3	9.4	3.5	8.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	4
6-7	.0	.0	10.6	7.1	1.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
UNDET	4.7	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	9	27	22	14	5	8	0	1	0	0	0	0	0	0	0	0	0	0	0	45	3
PCT	10.6	31.8	25.9	16.5	4.7	9.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.5	11.3	.0	.0	.0	.0	.0	18.9	.0	.0	3.8	.0	.0	.0	77.4
NE	2.9	5.9	.0	.0	.0	.0	.0	8.8	.0	2.9	.0	.0	.0	.0	91.2
E	2.1	20.8	4.2	.0	.0	.0	.0	27.1	.0	6.3	.0	.0	.0	.0	68.8
SE	2.2	17.4	.0	.0	.0	.0	.0	19.6	.0	8.7	.0	.0	.0	.0	71.7
S	3.3	.0	.0	.0	.0	.0	.0	3.3	.0	6.7	.0	.0	.0	.0	83.3
SW	6.9	5.6	4.2	.0	.0	.0	.0	16.7	.0	1.4	5.6	.0	.0	.0	77.8
W	5.5	8.3	.6	.0	.0	.0	.0	14.4	1.9	5.3	.2	.0	1.1	.0	77.6
NW	2.9	5.2	.0	.0	.0	.0	.0	8.2	.3	4.0	.0	.0	1.1	.0	83.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	93.8
TOT PCT	4.2	8.1	.9	.0	.0	.0	.0	13.1	.6	4.2	2.7	.0	.6	.0	79.7
TOT OBS:	335														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	8.8	7.0	1.8	.0	.0	.0	.0	17.5	.0	7.0	.0	.0	.0	.0	80.7
06009	2.2	2.2	2.2	.0	.0	.0	.0	7.5	.0	.0	4.3	.0	1.1	.0	87.1
12015	4.2	4.4	1.1	.0	.0	.0	.0	7.7	2.2	2.2	2.2	.0	1.1	.0	84.6
18021	8.7	16.5	.0	.0	.0	.0	.0	25.2	.0	9.4	3.9	.0	.0	.0	63.8
TOT PCT	5.4	6.7	1.1	.0	.0	.0	.0	15.2	.5	4.9	3.0	.0	.5	.0	77.4
TOT OBS:	368														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-31	34-47	48+					00	03	06	09	12	15	18	21
N	2.8	4.3	.6	.1	.0	.0		7.7	5.7		3.7	13.3	7.6	16.8	7.1	2.9	7.8	3.3
NE	2.4	3.2	.5	.0	.0	.0		6.1	5.0		2.2	6.7	7.4	4.5	12.0	5.9	2.9	5.7
E	2.3	4.6	.7	.0	.0	.0		7.7	5.8		5.6	3.3	10.4	7.7	9.0	2.9	7.0	6.6
SE	2.7	4.5	.6	.0	.0	.0		7.8	5.2		9.6	3.3	7.8	5.9	2.6	2.9	10.7	12.3
S	2.4	2.9	.1	.0	.0	.0		5.4	4.6		9.0	10.0	3.7	3.2	3.4	5.9	6.1	7.4
SW	2.6	6.2	1.0	.0	.0	.0		9.7	6.2		12.9	20.0	3.7	6.4	7.3	29.4	8.4	16.8
W	2.8	14.3	5.8	.6	.0	.0		23.6	8.5		30.6	23.3	22.2	17.3	20.9	20.6	26.2	26.2
NW	3.5	14.3	4.9	.8	.0	.0		23.6	8.3		17.4	20.0	23.9	38.2	29.3	29.4	18.6	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5							8.5	.0		9.0	.0	13.3	.0	8.3	.0	12.3	9.0
TOT OBS	222	404	166	11	0	0	743		6.4		89	15	135	110	133	17	122	122
TOT PCT	29.9	54.4	14.5	1.5	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	5.3	2.2	.3	.0	.0	7.7	5.7	5.0	11.7	6.7	5.5	
NE	5.0	1.5	.1	.0	.0	6.1	5.0	2.9	6.1	11.3	4.3	
E	5.0	2.6	.0	.0	.0	7.7	5.8	5.3	9.2	8.3	6.8	
SE	6.3	1.1	.3	.0	.0	7.8	5.2	8.7	6.9	2.7	11.3	
S	4.1	1.2	.1	.0	.0	5.4	4.6	9.1	3.5	3.7	6.8	
SW	6.2	3.3	.3	.0	.0	9.7	6.2	12.9	4.9	9.8	12.6	
W	10.4	11.3	1.6	.2	.0	23.6	8.5	29.6	20.0	20.8	26.2	
NW	10.8	10.5	2.2	.1	.0	23.6	8.3	17.8	10.3	29.3	15.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.5					8.5	.0	7.7	7.3	7.3	10.7	
TOT OBS	498	247	36	2	0	743		104	245	150	244	
TOT PCT	61.8	33.2	4.8	.3	.0		100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.7	14.4	59.6	18.3	.0	.0	.0	7.0	100.0	104
0600	7.3	24.9	49.0	17.1	1.6	.0	.0	6.5	100.0	245
1200	7.3	23.3	58.7	8.7	2.0	.0	.0	6.1	100.0	150
1800	10.7	19.7	54.9	13.1	1.6	.0	.0	6.3	100.0	244
TOT	63	159	404	106	11	0	0	6.4		743
PCT	8.5	21.4	54.4	14.3	1.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.0	.9	2.2		5.5
NE	.6	1.3	2.5	.0		4.0
E	.6	1.3	3.1	.0		4.7
SE	.0	1.3	.6	.0		4.0
S	.9	.9	1.3	.0		3.9
SW	.6	3.1	.9	4.1		5.7
W	2.2	9.1	16.6	7.5		5.7
NW	2.5	6.9	17.3	6.3		5.3
VAR	.0	.0	.0	.0		.0
CALM	3.8	.0	6.3	1.3		4.7
TOT OBS	10	19	34	17	80	5.3
TOT PCT	12.5	23.8	42.5	21.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	2.5
NE	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	3.1
E	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	3.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
SW	.0	.0	1.3	1.3	1.6	.0	.0	.0	.0	.0	.0	4.7
W	.0	.0	.0	6.9	5.3	.0	1.3	.0	.0	1.3	.0	20.6
NW	.0	.0	.0	4.7	3.4	1.3	.0	.0	.0	.0	.0	16.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	2.5	.0	.0	1.3	.0	.0	.0	.0	7.5
TOT OBS	0	0	1	14	9	2	2	0	0	1	51	80
TOT PCT	.0	.0	1.3	17.5	11.3	2.5	2.5	.0	.0	1.3	63.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
>2000	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
>1000	13.6	16.0	17.3	17.3	17.3	17.3	17.3	17.3
>600	29.6	33.3	34.6	34.6	34.6	34.6	34.6	34.6
>300	30.9	34.6	35.8	35.8	35.8	35.8	35.8	35.8
>150	30.9	34.6	35.8	35.8	35.8	35.8	35.8	35.8
>0	30.9	34.6	35.8	35.8	35.8	35.8	35.8	35.8
TOTAL	75	28	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 81

PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.9	10.9	23.9	19.6	6.5	8.7	7.6	7.6	8.7	.0	92

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2-1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.7	.0	.0	1.2	
	TOT %	.0	.0	.0	.0	.0	.0	.5	.7	.0	.0	1.2	
2-5	PCP	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.8	
	NO PCP	.0	.0	.1	.1	.0	.0	.3	.3	.0	.0	.9	
	TOT %	.0	.0	.1	.1	.0	.1	.7	.3	.0	.0	1.9	
5-10	PCP	1.9	.1	1.9	1.3	.1	1.2	2.2	1.7	.0	.0	10.1	
	NO PCP	3.4	1.6	2.4	3.1	2.5	3.7	7.1	8.7	.0	.9	33.4	
	TOT %	4.9	1.8	4.3	4.5	2.6	4.9	9.3	10.4	.0	.9	43.6	
10+	PCP	.0	.3	.0	.0	.0	.4	1.3	.4	.0	.0	2.4	
	NO PCP	3.0	3.0	2.7	2.2	1.9	5.3	15.2	14.2	.0	3.9	51.3	
	TOT %	3.0	3.3	2.7	2.2	1.9	5.7	16.5	14.6	.0	3.9	53.7	
TOT OBS													333
TOT PCT		7.9	5.1	7.2	6.9	4.5	10.7	27.0	26.0	.0	4.8	113.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2-1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.7	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.6	.0	.0	1.0	
2-5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.1	.3	.9	.0	.0	1.3	
	11-21	.0	.0	.0	.0	.0	.0	.5	.7	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.1	.8	.9	.0	.0	2.0	
5-10	0-3	1.9	.6	.9	.6	.5	.6	.6	2.0	.7	.8	8.6	
	4-10	2.1	1.0	2.4	3.2	1.6	3.1	5.1	5.8	.0	.0	24.2	
	11-21	.1	.1	.4	.3	.1	.5	1.9	1.4	.0	.0	4.8	
	22+	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.8	
	TOT %	4.2	1.8	3.7	4.0	2.2	4.2	8.1	9.5	.0	.8	38.4	
10+	0-3	1.0	1.4	.4	1.3	.3	1.6	1.5	2.8	.0	5.6	15.9	
	4-10	2.7	1.8	1.9	1.4	1.6	3.4	10.7	9.8	.0	.0	33.3	
	11-21	.2	.4	.5	.4	.0	.8	4.3	3.0	.0	.0	9.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.9	3.5	2.8	3.0	2.0	5.8	16.5	15.7	.0	5.6	58.6	
TOT OBS													396
TOT PCT		3.1	5.3	6.6	7.2	4.2	10.0	25.8	26.6	.0	6.3	100.0	

MARCH

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	29.4	11.8	.0	.0	.0	.0	.0	41.2	58.8	17
06009	.0	.0	4.2	16.7	12.5	4.2	.0	.0	.0	.0	37.5	62.5	24
12015	.0	.0	.0	13.8	10.3	3.4	8.9	.0	.0	.0	36.5	63.5	29
18021	.0	.0	.0	4.8	4.8	.0	.0	.0	.0	4.8	14.3	85.7	21
TOT	0	0	1	14	9	2	2	0	0	1	29	62	91
PCT	.0	.0	1.1	15.4	9.9	2.2	2.2	.0	.0	1.1	31.9	68.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	1.4	4.8	33.3	60.3	63
06009	.0	.0	1.4	1.8	38.6	57.9	1.4
12015	.0	.0	1.4	1.0	32.7	54.4	104
18021	.0	.0	.0	2.7	51.7	44.6	146
TOT	0	0	4	10	177	238	429
PCT	.0	.0	.9	2.3	41.3	55.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	35.7	14.3	50.0	14
06009	.0	.0	35.0	15.0	50.0	20
12015	.0	.0	14.8	22.2	63.0	29
18021	.0	.0	5.0	10.0	85.0	20
TOT	0	1	17	13	51	81
PCT	.0	1.2	21.0	16.0	63.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.4	5.2	1.7	.0	17	7.3
80.34	.0	.0	.0	.0	1.4	14.6	47.6	17.6	189	81.1
75/79	.0	.0	.0	.0	.0	.9	4.3	6.4	27	11.6
TOTAL	0	0	0	0	4	48	125	56	233	100.0
PCT	.0	.0	.0	.0	1.7	20.6	53.6	24.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.4	.6	1.5	.0	.0	.4	1.8	2.0	.0	.4
80.34	5.8	3.9	4.7	6.0	2.7	5.9	22.5	24.7	.0	4.7
75/79	1.5	.4	.9	.4	.0	1.9	4.2	1.6	.0	.0
TOT	7.7	4.9	7.1	6.4	3.5	8.3	28.5	28.3	.0	5.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	89	85	82	78	75	75	81.6	104
06009	91	89	85	83	79	75	75	83.3	231
12015	87	86	85	82	79	77	75	82.1	151
18021	89	87	84	81	77	75	73	80.9	249
TOT	91	89	85	82	78	75	73	82.0	735

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	10.8	56.8	32.4	86	37		
06009	.0	.0	5.9	26.5	52.9	14.7	81	65		
12015	.0	.0	1.6	27.9	47.5	23.0	83	61		
18021	.0	.0	.0	13.3	53.1	33.7	87	98		
TOT	0	0	5	52	130	69	85	264		

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	1.1	3	.0	1.1
5	.0	.0	.0	1.1	.0	3	.0	1.1
4	.0	.0	2.2	.7	.0	8	.0	3.0
3	.0	.0	.4	1.9	.0	5	.0	1.9
2	.0	.4	3.4	2.2	.0	16	.4	5.6
1	.0	.7	6.7	.7	.0	22	.0	8.2
0	.0	1.9	11.6	2.6	.0	43	1.1	15.0
-1	.0	3.0	14.6	.4	.0	48	1.5	16.5
-2	.0	5.2	16.5	.0	.0	58	.4	21.3
-3	.0	3.4	3.7	.4	.0	20	.0	7.5
-4	.0	3.4	3.7	.0	.0	19	.7	6.4
-5	2.6	1.5	.7	.0	.0	13	.0	4.9
-6	.0	.7	.0	.0	.0	2	.0	.7
-7/-8	1.1	1.5	.0	.0	.0	7	.0	2.6
TOTAL	10	58	170	26	3	257	11	256
PCT	3.7	21.7	63.7	9.7	1.1	100.0	4.3	95.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.0	2.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.0	.0	.0	.0	3.9	.0	2.6	.0	.0	.0	.0	2.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0010 SOUTHWEST JAVA SEA
5.95 100.8E

TABLE 10 (CONT)

ACT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	2.6
1-2	.0	.0	.0	.0	.0	.0	.0	.7	3.9	.0	.0	.0	.0	4.6
3-4	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6	3.3	3.9	.0	.0	.0	.0	7.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	7.2	.0	.0	.0	.0	7.2	.0	.7	.0	.0	.0	.0	.7	
1-2	3.9	16.4	.0	.0	.0	.0	20.4	.7	8.5	5.3	.0	.0	.0	14.5	
3-4	.0	3.9	4.6	.0	.0	.0	8.6	.0	7.2	6.6	.0	.0	.0	13.8	
5-6	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	27.6	7.2	.0	.0	.0	38.8	.7	16.4	11.8	.0	.0	.0	28.9	86.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.8	13.2	.0	.0	.0	.0	28.9	
1-2	5.3	26.9	5.3	.0	.0	.0	37.5	
3-4	.0	15.8	13.2	.0	.0	.0	28.9	
5-6	.0	.0	2.6	.0	.0	.0	2.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	21.1	57.9	21.1	.0	.0	.0	100.0	38

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.9	34.7	20.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	50
6-7	.0	1.4	4.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	2
8-9	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	3
INDET	18.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	23	28	18	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
PCT	31.9	38.9	25.0	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	2

PERIOD: (PRIMARY) 1914-1972
(COVER-ALL) 1857-1972

APRIL

TABLE 1

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.7E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0				
NE	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	10.9	2.2		.0	.0	95.3
E	1.7	5.2	.0	.0	.0	.0	.0	6.9	.0	11.6	7.7		.0	.0	82.6
SE	4.6	6.9	2.3	.0	.0	.0	.0	13.8	2.3	7.5	.0		.0	.0	75.5
S	10.0	3.3	.0	.0	.0	.0	.0	13.3		16.7	6.7		.0	.0	76.4
SW	2.4	2.4	.0	.0	.0	.0	.0	4.9	.0	12.2	.0		.0	.0	73.3
W	3.3	10.0	1.7	.0	.0	.0	.0	13.0	.0	5.0	3.3		4.9	.0	80.5
NW	3.7	3.7	1.9	.0	.0	.0	.0	9.3	.0	1.9	3.7		.0	.0	78.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	87.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0		7.1	.0	.0
TOT PCT	3.3	4.5	.8	.0	.0	.0	.0	8.7	.4	8.7	3.3		.0	.0	79.8
TOT OBS	2-2														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.3	2.3	2.3	.0	.0	.0	.0	6.8	.0	.0	2.3	.0	.0	.0	90.9
0600	1.4	3.6	.0	.0	.0	.0	.0	7.0	.0	.0	2.8	.0	.0	.0	90.1
1200	1.6	4.9	.0	.0	.0	.0	.0	6.6	1.6	11.5	1.6	.0	1.6	.0	78.7
1800	7.1	3.5	1.2	.0	.0	.0	.0	11.8	.0	18.8	5.9	.0	1.2	.0	67.1
TOT PCT TOT OBS:	3.4 261	4.2	.8	.0	.0	.0	.0	8.4	.4	8.8	3.4	.0	.8	.0	80.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	2.3	2.7	.3	.0	.0	.0		5.4	4.7		.7	.0	8.8	13.5	8.3	2.9	2.4	1.3
NE	2.7	5.1	.8	.0	.0	.0		9.1	5.5		4.7	9.1	11.1	17.4	9.6	14.7	9.3	2.6
E	4.4	16.0	1.9	.3	.0	.0		22.5	6.5		22.4	18.2	22.1	20.8	27.5	5.9	25.0	18.7
SE	3.5	12.1	.4	.0	.0	.0		18.3	5.3		26.8	40.9	17.2	6.2	9.9	11.8	17.1	29.6
S	3.3	4.0	.4	.0	.0	.0		7.6	4.6		13.8	4.5	7.2	3.4	5.3	5.9	7.7	8.7
SW	2.9	4.2	.7	.0	.0	.0		7.7	5.4		6.3	.0	5.7	1.1	7.8	23.5	10.5	11.3
W	3.6	6.3	1.9	.1	.0	.0		11.9	6.4		11.2	4.5	12.1	5.6	9.2	23.5	14.1	16.1
NW	2.2	5.3	1.0	.1	.0	.0		8.6	6.1		4.4	22.7	4.3	19.7	13.1	.0	5.6	4.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1							9.1	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	246	383	31	3	0	0	683				10.4	.0	11.5	12.4	7.3	11.8	7.3	7.0
TOT PCT	36.0	56.1	7.9	.4	.0	.0			5.2		95	11	122	89	109	17	12	115
								100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					03	06	12	18
N	4.3	1.1	.0	.0	.0		5.4	4.7	.0	10.8	7.5	1.9	
NE	6.6	2.5	.0	.0	.0		9.1	5.5	5.1	13.7	10.3	6.1	
E	14.4	7.3	.6	.1	.0		22.5	6.5	22.0	21.6	24.6	22.5	
SE	13.1	5.1	.1	.0	.0		18.3	5.3	28.3	12.6	10.1	23.1	
S	6.3	1.2	.1	.0	.0		7.6	4.6	12.9	5.6	5.4	8.2	
SW	5.6	1.9	.1	.0	.0		7.7	5.4	5.6	3.8	9.9	10.9	
W	7.7	3.7	.5	.0	.0		11.9	6.4	10.5	9.4	11.1	15.1	
NW	6.1	2.0	.4	.0	.0		8.6	6.1	6.3	10.8	13.1	5.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	9.1						9.1	.0	9.3	11.8	7.9	7.1	
TOT OBS	90	169	13	1	0	683			107	211	126	239	
TOT PCT	73.2	24.7	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0	

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

MOHR	CALM	WIND SPEED (KNOTS)					40+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00603	9.3	29.0	56.1	4.7	.9	.0	.0	5.1	100.0	107
06009	11.8	78.4	49.8	10.0	.9	.0	.0	5.2	100.0	211
12015	7.5	26.5	60.7	6.0	.9	.0	.0	5.3	100.0	126
18021	7.1	26.8	58.0	7.1	.0	.0	.0	5.3	100.0	126
YDT	62	184	363	51	3	.0	.0	5.2		683
PCT	9.1	26.9	56	7.5	.4	.0	.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PER OCCURRENCE BY WIND DIRECTION											
							000 149	150 298	200 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<S/8 MGT
N	.0	1.0	.0	.0		4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
NE	6.5	.3	.3	1.3		2.5	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	7.1	
E	7.1	19.5	9.1	7.5		4.3	.0	.0	1.3	1.0	2.6	1.3	.0	.0	.0	.0	37.0	
SE	4.5	8.1	7.5	1.9		4.4	.0	.0	.0	1.6	2.6	1.3	.0	.0	.0	.0	18.6	
S	1.3	2.3	.0	1.0		3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	
SW	1.3	.0	1.9	.0		3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
W	1.3	2.6	2.9	1.0		4.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	5.5	
NW	.0	1.3	1.6	.3		5.5	.0	.0	.0	.3	.0	.0	1.3	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	2.6	2.6	.0		4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	
TOT OBS	18	29	20	16		4.2	.0	.0	2	3	4	2	1	.0	.0	1	64	
TOT PCT	23.4	37.7	26.0	13.0	100.0		.0	.0	2.6	3.9	5.2	2.6	1.3	.0	.0	1.3	83.1	

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 24/8) AND VSBY (NM)

	VSBY (NM)								
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50VD	= OR >0	
= OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
= OR >2000	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
= OR >1000	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
= OR >600	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
= OR >300	16.7	16.7	16.7	16.7	16.7	17.9	17.9	17.9	17.9
= OR >150	16.7	16.7	16.7	16.7	16.7	17.9	17.9	17.9	17.9
= OR > 0	16.7	16.7	16.7	16.7	16.7	17.9	17.9	17.9	17.9
TOTAL	13	13	13	13	13	14	14	14	14

TOTAL NUMBER OF OBS: 70 PCT FREQ NH 49/81 82.1

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSC0	TOT- DBS
11.0	14.6	22.0	14.6	17.1	3.7	6.1	4.9	6.1	.0	82

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

APRIL

AREA 0010 SOUTHWEST AKA SEA
5.95 108 .1

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.8	2.5	
	TOT %	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.8	2.5	
5<10	PCP	.0	.0	.8	2.5	.9	.4	1.7	.8	.0	.0	7.0	
	NO PCP	2.1	3.3	6.0	3.8	2.2	4.9	5.4	6.6	.0	2.1	36.0	
	TOT %	2.1	3.3	6.8	6.3	3.0	5.0	7.0	7.4	.0	2.1	43.0	
10+	PCP	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	2.4	4.5	16.4	11.5	3.0	3.1	5.2	3.5	.0	2.9	52.5	
	TOT %	2.4	5.0	16.8	11.5	3.0	3.1	5.2	3.5	.0	2.9	53.3	
TOT OBS													242
TOT PCT													
4.4 9.5 24.1 18.0 6.2 8.9 12.4 11.2 .0 5.8 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.2	.0	.1	.1	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.5	
2<5	0-3	.0	.3	.0	.5	.0	.3	.3	.0	.0	.5	1.9	
	4-10	.0	.8	.0	.7	.1	.0	.0	.0	.0	.0	1.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.1	.0	1.2	.1	.3	.3	.0	.0	.5	3.5	
5<10	0-3	.3	.3	.3	1.1	.5	.4	1.0	.5	.0	1.9	6.3	
	4-10	1.1	1.4	4.1	3.2	1.4	2.6	2.5	3.4	.0	.0	19.6	
	11-21	.0	.5	.5	.0	.3	.3	1.2	1.0	.0	.0	3.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	2.2	4.9	4.3	2.2	3.3	4.6	4.9	.0	1.9	29.7	
10+	0-3	1.2	2.5	3.3	4.0	1.9	2.2	2.6	1.8	.0	6.5	25.9	
	4-10	1.6	3.3	11.6	7.6	2.8	1.6	3.7	3.5	.0	.0	35.7	
	11-21	.0	.3	1.4	.5	.0	.1	1.1	.1	.0	.0	3.5	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.8	6.1	16.4	12.1	4.7	4.0	7.4	5.4	.0	6.5	65.4	
TOT OBS													367
TOT PCT													
4.2 9.4 21.6 17.6 7.3 7.8 12.4 10.5 .0 9.2 100.0													

APRIL

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	12.5	6.3	.0	.0	.0	.0	.0	18.8	81.3	16
06009	.0	.0	9.5	4.8	.0	.0	.0	.0	.0	.0	14.3	85.7	21
12015	.0	.0	.0	.0	.0	9.1	4.5	.0	.0	.0	13.6	86.4	22
18021	.0	.0	.0	.0	15.0	.0	5.0	.0	.0	5.0	25.0	75.0	20
TOT	0	0	2	3	4	2	2	0	0	1	14	65	79
PCT	.0	.0	2.5	3.8	5.1	2.5	2.5	.0	.0	1.3	17.7	82.3	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	3.3	33.3	63.3	60
06009	.9	.0	.9	1.9	28.5	67.9	106
12015	.0	1.2	.0	4.7	28.2	65.9	85
18021	.0	.7	1.5	3.7	34.8	59.3	135
TOT	1	2	3	13	121	246	386
PCT	.3	.5	.8	3.4	31.3	63.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOURL (GMT)	<150 40VD	<600 CL	<1000 CS	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	12.5	6.3	81.3	16
06009	.0	9.5	14.3	.0	85.7	21
12015	.0	.0	.0	14.3	85.7	21
18021	.0	.0	.0	25.0	75.0	20
TOT	0	2	5	9	64	78
PCT	.0	2.6	6.4	11.5	82.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
90/94	.0	.0	.0	.0	.0	.6	.0	.0	1	.6
85/89	.0	.0	.0	.0	2.2	9.5	5.6	1.7	34	19.0
80/84	.0	.0	.0	.6	1.1	27.9	40.2	2.8	130	72.6
75/79	.0	.0	.0	.0	.0	.6	1.1	5.6	13	7.3
TOTAL	0	0	0	1	7	69	84	18	179	100.0
PCT	.0	.0	.0	.6	3.9	38.5	46.9	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
90/94	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
85/89	2.0	1.3	7.0	2.4	.6	1.1	.8	1.7	.0	2.2
80/84	2.5	6.7	19.6	11.2	4.2	7.8	10.3	9.2	.0	1.1
75/79	.0	.6	.8	2.5	1.1	.0	2.2	.0	.0	.0
TOTAL	4.9	8.7	27.8	16.2	5.9	8.9	13.4	10.9	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	90	87	83	80	78	78	83.0	106
06009	95	92	89	84	80	75	74	84.1	190
12015	90	87	86	83	80	78	76	82.7	125
18021	88	86	85	82	79	77	75	81.9	246
TOT	95	90	87	83	79	77	74	82.9	667

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.3	.0	36.7	50.0	10.0	81	30		
06009	.0	.0	11.3	49.1	28.3	11.3	79	53		
12015	.0	.0	2.4	43.9	46.3	7.3	80	41		
18021	.0	.0	.0	23.0	63.5	13.5	83	74		
TOT	0	1	7	72	96	22	81	198		

APRIL

PERIOD: (PRIMARY) 1914-1972
(COVER-ALL) 1857-1972AREA 0010 SOUTHWEST JAVA SFA
5.95 108.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	>92	TOT	% FOG	% NO FOG
7/8	.0	.5	.0	1.0	.5	4	.0	1.9
5	.0	.0	.0	.5	.0	1	.0	.5
4	.0	.5	1.5	.0	.0	4	.0	1.9
3	.0	.0	1.9	.5	.0	5	.0	2.4
2	.0	4.9	2.4	.5	.0	16	.5	7.3
1	.5	3.9	2.9	.0	.0	15	1.0	6.3
0	.5	16.5	2.9	.0	.0	41	1.0	18.9
-1	.5	9.2	2.9	.0	.0	26	.5	12.1
-2	.0	20.9	1.9	.0	.0	47	.5	22.3
-3	.5	8.7	.0	.0	.0	19	.5	8.7
-4	1.9	6.3	.0	.0	.0	17	.0	8.3
-5	1.5	1.0	.0	.0	.0	5	.5	1.9
-6	1.9	.5	.0	.0	.0	5	.0	2.4
-7/-8	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	.6	130	34	5	1	206	4.4	197
PCT	7.8	72.8	16.5	2.4	.5	100.0	4.4	95.6

PERIOD: (COVER-ALL) 1943-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.0	.0	.0	.0	7.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	6.5	4.0	.0	.0	.0	10.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2	.0	3.2	.0	.0	.0	.0	3.2
1-2	3.2	12.1	4.8	.0	.0	.0	20.2	3.2	11.3	.8	.0	.0	.0	15.3
3-4	.0	10.5	3.2	2.4	.0	.0	16.1	.0	12.1	3.2	.8	.0	.0	16.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	3.2	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	25.8	8.1	5.6	.0	.0	42.7	3.2	26.6	4.0	.8	.0	.0	34.7

PERIOD: (OVER-ALL) 1963-1972

APRIL

TABLE 18 (CONT)

AREA 6010 SOUTHWEST JAVA SEA
5.55 108.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	.0	.0	.0	.0	2.4	3.2	.0	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4	3.2	.0	.0	.0	.0	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	6.5	.0	.0	.0	.0	6.5	
1-2	9.7	35.5	9.7	.0	.0	.0	54.8	
3-4	.0	25.8	6.5	3.2	.0	.0	35.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	3.2	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	67.7	16.1	6.5	.0	.0	100.0	31

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	19.0	30.2	22.2	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
6-7	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDET	1.6	7.9	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	13	25	19	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
PCT	20.6	39.7	30.2	7.9	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63
																					2

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1960-1971

MAY

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	11.8	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	88.2
NE	.0	1.9	.0	.0	.0	.0	.0	1.9	3.8	7.3	.0	.0	.0	.0	86.8
E	4.8	4.0	.0	.0	.0	.0	.0	8.8	1.0	6.4	.0	.0	.0	.0	84.8
SE	3.7	5.2	.0	.0	.0	.0	.0	8.9	.0	3.7	.0	.0	.0	.0	89.7
S	10.9	.0	.0	.0	.0	.0	.0	10.9	.0	2.2	.0	.0	.0	.0	89.1
SW	13.1	.0	.0	.0	.0	.0	.0	13.1	.0	7.5	.0	.0	.0	.0	77.4
W	6.7	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	93.3
NW	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	95.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	92.9
TOT PCT	4.6	3.3	.0	.0	.0	.0	.0	7.9	.8	4.6	.0	.0	.0	.0	88.0
TOT OBS:	241														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.6	2.3	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	90.9
06009	3.9	3.9	.0	.0	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	92.1
12015	7.7	.0	.0	.0	.0	.0	.0	7.7	1.5	10.8	.0	.0	1.5	.0	81.5
18021	8.2	5.9	.0	.0	.0	.0	.0	14.1	1.2	9.4	1.2	.0	1.2	.0	76.5
TOT PCT	6.7	3.3	.0	.0	.0	.0	.0	10.0	.7	5.6	.4	.0	.7	.0	84.4
TOT OBS:	270														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	05	09	12	15	18	21
N	1.0	3.2	.1	.0	.0	.0		4.3	5.3	7.1	4.5	1.7	6.7	8.2	3.6	5.4	2.3	
NE	1.8	6.5	.6	.0	.0	.0		8.9	6.1	3.6	8.2	4.5	19.4	13.9	10.7	9.5	7.8	
E	4.3	18.5	5.5	.0	.0	.0		28.4	7.6	21.1	18.2	35.4	27.5	35.9	10.7	31.8	16.5	
SE	3.9	19.4	3.7	.0	.0	.0		27.0	7.1	43.4	22.7	37.3	16.4	12.4	28.6	21.1	32.1	
S	1.4	7.4	1.0	.0	.0	.0		9.8	6.8	16.3	27.3	6.4	3.9	5.7	14.3	7.4	19.3	
SW	1.0	3.7	.4	.0	.0	.0		5.1	6.4	4.6	.0	2.4	1.7	4.4	10.7	6.2	11.0	
W	.8	2.6	.4	.0	.0	.0		3.8	7.2	1.8	.0	2.8	3.9	4.2	7.1	3.7	6.0	
NW	1.0	3.4	.8	.0	.0	.0		5.2	6.5	.9	9.1	2.4	16.1	5.3	14.3	5.0	1.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.5	44.7	86	.0	.0	.0	691	7.5	.0	6.0	.0	6.9	4.4	10.1	.0	9.9	8.3	
TOT OBS	158									83	11	144	90	119	14	121	109	
TOT PCT	22.9	64.7	12.4	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	09	18
N	3.3	1.0	.0	.0	.0			4.3	5.3	2.4	3.6	7.7	3.9	
NE	5.4	3.5	.0	.0	.0			8.9	6.1	3.3	10.3	13.5	6.3	
E	12.8	15.0	.6	.0	.0			28.4	7.6	20.7	32.4	33.3	24.6	
SE	13.8	12.8	.3	.0	.0			27.0	7.1	41.0	29.3	14.1	26.3	
S	3.3	3.5	.5	.0	.0			9.8	6.8	17.6	5.4	6.6	13.0	
SW	3.1	1.7	.2	.0	.0			5.1	6.4	4.3	2.1	5.1	8.5	
W	1.4	2.4	.0	.0	.0			3.8	7.2	1.6	3.2	4.5	4.8	
NW	3.2	2.0	.0	.0	.0			5.2	6.5	1.9	7.7	6.2	3.5	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	7.5							7.5	.0	5.3	6.0	9.0	9.1	
TOT OBS	390	290	11	0	0	691			6.4	94	234	133	230	
TOT PCT	56.4	42.0	1.6	.0	.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1960-1971

NAV

AREA 0010 SOUTHWEST AKA SEA
5.35 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOON	CALM	1-9	10-19	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.3	10.6	69.1	14.9	.0	.0	.0	.0	6.6	100.0	94
06609	6.0	18.4	62.8	12.8	.0	.0	.0	.0	6.5	100.0	234
12615	9.0	13.5	66.2	11.3	.0	.0	.0	.0	6.1	100.0	133
18621	9.1	15.2	63.9	11.7	.0	.0	.0	.0	6.4	100.0	230
TOT	52	106	447	86	0	0	0	0	6.4		691
PCT	7.5	15.3	64.7	12.4	.0	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.9	1.4	.0		4.8
NE	1.9	.0	3.7	.0		4.3
E	11.1	11.6	11.1	1.9		3.9
SE	9.3	16.2	4.2	1.9		3.4
S	.0	1.4	3.2	.0		3.0
SW	.0	.5	.0	1.9		7.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.5	.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	3.7	3.7	7.4	1.9		4.8
TOT OBS	14	19	17	4	54	4.1
TOT PCT	25.9	35.2	31.5	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 34/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.9
.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	1.9
.0	.0	.0	.0	2.8	3.7	.0	.0	.0	.0	.0	29.2
.0	.0	.0	1.9	2.8	.0	.0	.0	.0	.0	.0	26.9
.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	2.8
.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.5
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	1.9	1.9	1.9	.0	.0	.0	.0	.0	11.1
0	0	0	3	6	5	0	0	0	0	0	42
.0	.0	.0	5.6	11.1	9.3	.0	.0	.0	.0	.0	74.1
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>= 3500	.0	.0	.0	.0	.0	.0	.0	.0
>= 3000	.0	.0	.0	.0	.0	.0	.0	.0
>= 2500	.0	.0	.0	.0	.0	.0	.0	.0
>= 2000	7.3	9.1	9.1	9.1	9.1	9.1	9.1	9.1
>= 1500	18.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0
>= 1000	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
>= 500	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
>= 150	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
>= 0	21.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
TOTAL	12	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 55

PCT FREQ NH <5/8: 74.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.4	17.2	31.0	20.7	3.4	12.1	5.2	3.4	3.4	.0	58

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

MAY

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.8	.0	.4	.0	.2	.2	.0	.0	1.7	
	NO PCP	.0	.0	1.2	.8	.0	.0	.0	.0	.0	.0	2.1	
	TOT %	.0	.0	2.1	.8	.4	.0	.2	.2	.0	.0	3.7	
5<10	PCP	.0	.0	1.5	2.3	.4	.8	.0	.0	.0	.0	5.0	
	NO PCP	2.5	3.7	9.3	9.6	3.4	1.7	1.5	2.7	.0	1.7	36.1	
	TOT %	2.5	3.7	10.8	11.9	3.8	2.5	1.5	2.7	.0	1.7	41.1	
10+	PCP	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	2.2	6.6	13.1	15.1	5.1	3.0	1.5	2.8	.0	4.1	53.5	
	TOT %	2.8	6.8	13.1	15.4	5.3	3.0	1.5	2.8	.0	4.1	54.8	
TOT OBS													241
TOT PCT		5.3	11.0	25.9	28.1	9.5	5.5	3.1	5.7	.0	5.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.3	.0	.0	.0	.0	.0	.1	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.3	.0	.0	.0	.0	.0	.1	.0	.0	.6	
2<5	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	1.5	.6	.3	.0	.1	.1	.0	.0	2.6	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.7	.9	.3	.0	.1	.1	.0	.0	3.2	
5<10	0-3	.7	.4	.3	.7	.1	.3	.0	.0	.0	1.2	3.8	
	4-10	1.0	1.9	5.0	6.6	2.2	1.2	1.0	1.6	.0	.0	20.4	
	11-21	.0	.6	2.3	1.4	.4	.3	.1	.4	.0	.0	5.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.7	2.9	7.6	8.7	2.7	1.7	1.2	2.0	.0	1.2	29.7	
10+	0-3	.6	1.5	1.9	1.6	.3	1.0	.1	.3	.0	5.2	12.5	
	4-10	2.1	3.9	14.1	13.7	4.7	2.3	2.0	1.4	.0	.0	44.3	
	11-21	.3	.1	4.4	3.9	.3	.0	.0	.6	.0	.0	9.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.0	5.5	20.4	19.2	5.3	3.3	2.2	2.3	.0	5.2	66.5	
TOT OBS													343
TOT PCT		5.0	8.7	29.7	28.8	8.3	5.0	3.5	4.5	.0	6.4	100.0	

MAY

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	10
06009	.0	.0	.0	7.1	21.4	14.3	.0	.0	.0	.0	42.9	57.1	14
12015	.0	.0	.0	10.5	.0	15.8	.0	.0	.0	.0	26.3	73.7	19
18021	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	6.7	93.3	15
TOT	0	0	0	3	6	5	0	0	0	0	14	44	58
PCT	.0	.0	.0	5.2	10.3	8.6	.0	.0	.0	.0	24.1	75.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	3.4	30.5	66.1	99
06009	.0	.0	.0	3.8	32.4	63.8	105
12015	.0	.0	2.4	4.7	29.4	63.5	85
18021	.0	.0	1.6	3.3	31.7	62.6	123
TOT	1	0	4	14	116	237	372
PCT	.3	.0	1.1	3.8	31.2	63.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	20.0	80.0	10
06009	.0	.0	8.3	41.7	50.0	12
12015	.0	.0	11.1	16.7	72.2	18
18021	.0	.0	.0	6.7	93.3	15
TOT	0	0	3	11	41	55
PCT	.0	.0	5.5	20.0	74.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.6	7.5	6.9	.0	24	15.0
80/84	.0	.0	.0	.0	3.8	23.8	35.0	15.6	125	78.1
75/79	.0	.0	.0	.0	.0	.6	3.8	2.5	11	6.9
TOTAL	0	0	0	0	7	51	73	29	160	100.0
PCT	.0	.0	.0	.0	4.4	31.9	45.6	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.6	2.2	4.7	3.4	.0	.0	.3	1.6	.0	1.3	
5.2	5.3	25.5	20.9	3.9	5.0	3.1	3.6	.0	5.6	
.0	.6	.9	2.8	.6	1.3	.0	.0	.0	.6	
6.7	8.1	31.1	27.2	4.5	6.3	3.4	5.2	.0	7.5	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	86	86	83	79	77	77	82.4	91
06009	90	89	88	84	80	77	75	84.1	216
12015	90	89	86	83	79	77	77	82.9	138
18021	86	85	84	82	79	77	76	81.8	240
TOT	90	88	87	83	79	77	75	82.8	685

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.0	24.0	52.0	20.0	83	25
06009	.0	.0	5.9	31.4	51.0	11.8	81	81
12015	.0	.0	2.3	32.6	44.2	20.9	83	43
18021	.0	.0	6.0	29.9	41.8	22.4	83	67
TOT	0	0	9	56	86	33	82	186

MAY

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1860-1971AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
5	.0	.0	.0	.5	1	.0	.5
4	.0	.0	.5	.5	2	.0	.9
3	.0	.9	3.7	.0	10	.0	4.7
2	.0	2.3	3.3	.0	12	.5	5.1
1	1.4	7.9	3.7	.5	29	.0	13.6
0	.5	16.4	3.3	1.4	46	.0	21.5
-1	.9	10.7	1.9	.0	29	.0	13.6
-2	1.4	14.5	.5	.0	35	.0	16.4
-3	.9	6.5	.0	.0	16	.0	7.5
-4	3.7	7.0	.0	.0	23	.0	10.7
-5	3.7	.9	.0	.0	10	.0	4.7
-6	.5	.0	.0	.0	1	.0	.5
TOTAL	28	144	36	6	214	1	213
PCT	13.1	67.3	16.8	2.8	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	3.6
3-4	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	.0	.0	.0	.0	2.7	.0	3.6	.0	.0	.0	.0	3.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	2.7	.0	.0	.0	.0	.0	2.7	.9	.0	.0	.0	.0	.0	.9
1-2	.0	6.3	3.6	.0	.0	.0	9.8	.0	11.6	3.6	.0	.0	.0	15.2
3-4	.0	.0	5.4	.0	.0	.0	5.4	.0	7.1	8.9	.0	.0	.0	16.1
5-6	.0	3.6	3.6	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	4.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	9.8	12.5	.0	.0	.0	25.0	.9	18.8	17.0	.0	.0	.0	36.6

PERIOD: (OVER-ALL) 1963-1971

MAY

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	2.7	.0	.0	.0	8.9	.0	.9	.0	.0	.0	.0	.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	78.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.0	3.6	.0	.0	.0	.0	28.6	
1-2	.0	25.0	7.1	.0	.0	.0	32.1	
3-4	.0	10.7	14.3	.0	.0	.0	25.0	
5-6	.0	3.6	3.6	.0	.0	.0	7.1	
7	.0	.0	7.1	.0	.0	.0	7.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	25.0	42.9	32.1	.0	.0	.0	100.0	28

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.9	31.1	13.3	4.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
6-7	.0	6.7	2.2	4.4	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
8-9	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	19.6	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
TOTAL	11	17	8	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
PCT	24.4	37.8	17.8	8.9	8.9	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

JUNE

AREA 0010 SOUTHWEST JAVA SEA
5.65 108.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.5	.0	.0	.0	.0	.0	.0	7.5	.0	.0	.0	.0	15.1	.0	77.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	5.3	.0	.0	.0	91.8
E	4.5	3.0	.0	.0	.0	.0	.0	7.5	.0	5.0	12.4	.0	.0	.0	75.1
SE	5.7	2.5	.0	.0	.0	.0	.0	8.2	2.5	5.7	.6	.0	.0	.0	84.3
S	8.6	4.3	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	87.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	11.1	2.8	.0	.0	.0	.0	96.1
W	30.8	.0	.0	.0	.0	.0	.0	30.8	.0	59.8	.0	.0	.0	.0	46.2
NW	22.2	.0	11.1	.0	.0	.0	.0	22.2	.0	44.4	.0	.0	.0	.0	44.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.7	2.3	.4	.0	.0	.0	.0	8.0	1.1	6.1	5.3	.0	.8	.0	79.3
TOT OBS:	263														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	9.3	3.7	.0	.0	.0	.0	.0	13.0	3.7	1.9	3.7	.0	.0	.0	77.8
0600	4.6	3.1	1.5	.0	.0	.0	.0	7.7	.0	.0	6.2	.0	1.5	.0	84.6
1200	1.5	.0	.0	.0	.0	.0	.0	1.5	1.5	9.0	3.0	.0	1.5	.0	83.6
1800	7.9	2.2	.0	.0	.0	.0	.0	10.1	.0	11.2	9.0	.0	.0	.0	74.2
TOT PCT TOT OBS:	5.8 275	2.2	.4	.0	.0	.0	.0	8.0	1.1	6.2	5.8	.0	.7	.0	79.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.3	1.9	.2	.0	.0	.0	3.4	4.8	2.3	4.2	2.1	5.6	6.9	.0	3.4	1.3		
NE	1.1	7.3	1.4	.0	.0	.0	9.8	7.3	5.8	4.2	4.2	14.8	17.0	18.3	10.7	7.8		
E	2.5	22.4	10.6	.2	.0	.0	35.7	9.1	26.0	29.2	35.0	51.4	39.2	46.9	39.3	27.4		
SE	3.3	19.6	7.5	.2	.0	.0	30.5	8.7	36.8	50.0	37.3	17.6	21.8	21.9	28.2	36.1		
S	1.2	5.3	1.2	.0	.0	.0	7.7	7.0	16.8	.0	7.0	.7	2.8	6.3	6.4	12.0		
SW	1.1	2.7	.3	.0	.0	.0	4.1	6.2	8.0	4.2	5.9	.0	1.8	.0	1.9	6.3		
W	.4	1.2	.6	.0	.0	.0	2.2	8.2	2.5	4.2	2.5	2.1	.9	.0	1.5	3.5		
NW	1.3	2.1	.0	.0	.0	.0	3.3	4.7	.0	4.2	2.5	3.5	6.0	6.3	3.4	3.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.2						3.2	.0	2.0	.0	3.4	4.2	3.7	.0	5.1	1.7		
TOT OBS	101	411	144	2	0	0	658		100	12	118	71	109	16	117	115		
TOT PCT	15.3	62.5	21.9	.3	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.7	.7	.0	.0	.0		3.4	4.8	2.5	3.4	6.0	2.4	
NE	4.5	5.4	.0	.0	.0		9.8	7.3	5.8	8.2	17.2	9.3	
E	12.0	21.2	2.5	.0	.0		35.7	9.1	26.0	41.1	40.2	33.4	
SE	10.3	18.4	1.9	.0	.0		30.5	8.7	36.8	29.9	21.8	32.1	
S	4.3	3.3	.2	.0	.0		7.7	7.0	15.0	4.6	3.2	9.2	
SW	2.4	1.7	.0	.0	.0		4.1	6.2	7.0	3.7	1.6	4.1	
W	.8	1.2	.2	.0	.0		2.2	8.2	2.7	2.4	.8	2.5	
NW	2.6	.8	.0	.0	.0		3.3	4.7	.4	2.9	6.0	3.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.2						3.2	.0	1.8	3.7	3.2	3.4	
TOT OBS	281	344	31	0	658		7.9		112	189	125	232	
TOT PCT	42.7	52.6	4.7	0	0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1972
(COVER-ALL) 1862-1972

JUNE

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	1.8	10.7	63.4	24.1	.0	.0	.0	8.2	100.0	112
0600	3.7	9.5	62.4	23.8	.5	.0	.0	8.7	100.0	189
1200	3.2	12.8	64.0	19.2	.4	.0	.0	7.6	100.0	125
1800	3.4	14.7	61.2	20.7	.0	.0	.0	7.6	100.0	232
TOT	71	80	411	144	2	0	0	7.9		658
PCT	3.2	12.2	62.5	21.9	.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.0	1.1	.0		6.0
NE	.0	1.4	1.1	.0		3.0
E	15.6	9.8	10.5	2.2		3.6
SE	0.2	20.7	9.1	2.2		4.2
S	.7	1.4	2.5	1.4		5.7
SW	3.6	.0	1.8	.0		2.8
W	.0	.0	.0	1.4		8.0
NW	.0	.0	.0	1.4		8.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	1.4	2.0	.0		4.2
TOT OBS	19	24	20	6	69	4.1
TOT PCT	27.5	34.8	29.0	8.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1499	2499	3499	4999	6499	7999	ANY MGT	OBS
N	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.8
E	.0	.0	.0	1.1	5.1	1.4	1.4	.0	.0	.0	.0	29.0
SE	.0	.0	1.4	1.8	.4	.0	.0	.0	.0	.0	.0	34.4
S	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	2.2
SW	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	5.1
W	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	4.3
TOT OBS	0	0	1	4	8	2	1	0	0	0	0	69
TOT PCT	.0	.0	1.4	5.8	11.6	2.9	1.4	.0	.0	.0	76.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		>10	>5	>2
>6500	.0	.0	.0	.0	.0	.0	.0	.0				
>5000	.0	.0	.0	.0	.0	.0	.0	.0				
>3500	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4				
>2000	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2				
>1000	11.2	14.1	15.5	15.5	15.5	15.5	15.5	15.5				
>600	15.5	19.7	21.1	21.1	21.1	21.1	21.1	21.1				
>300	15.5	19.7	22.5	22.5	22.5	22.5	22.5	22.5				
>150	15.5	19.7	22.5	22.5	22.5	22.5	22.5	22.5				
>0	15.5	19.7	22.5	22.5	22.5	22.5	22.5	22.5				
TOTAL	11	14	16	16	16	16	16	16				

TOTAL NUMBER OF OBS: 71

PCT FREQ NM <5/8: 77.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.4	15.6	15.6	18.2	15.6	9.1	3.9	3.2	6.5	.0	77

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972

JUNE

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	
2<5	PCP	.4	.0	.4	.0	.4	.4	.4	.4	.0	.0	1.9	
	NO PCP	.0	.4	1.1	.8	.0	.4	.0	.0	.0	.0	2.7	
	TOT %	.4	.4	1.5	.8	.4	.4	.4	.4	.0	.0	4.5	
5<10	PCP	.0	.0	.9	1.3	.4	.0	.0	.4	.0	.0	3.0	
	NO PCP	9.2	3.0	15.0	9.9	4.0	1.2	.0	.4	.0	1.1	37.9	
	TOT %	9.2	3.0	15.9	11.3	4.4	1.2	.0	.8	.0	1.1	40.9	
10+	PCP	.0	.0	.4	1.1	.4	.0	.0	.0	.0	.0	1.9	
	NO PCP	1.4	3.5	19.1	17.0	3.7	1.8	.9	2.3	.0	1.5	51.1	
	TOT %	1.4	3.5	19.5	18.1	4.1	1.8	.9	2.3	.0	1.5	53.0	
TOT OBS													264
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.4	1.0	.0	.0	.0	.1	.0	.0	1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.4	1.0	.0	.0	.0	.1	.0	.0	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.3	.0	.3	.3	.0	.0	.0	.3	.0	.0	1.1	
	4-10	.0	.3	.8	.3	.0	.3	.3	.0	.0	.0	1.9	
	11-21	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	1.4	.6	.3	.3	.3	.3	.0	.0	3.6	
5<10	0-3	.8	.0	.1	1.0	.5	.0	.0	.0	.0	1.1	3.6	
	4-10	1.5	2.2	6.9	5.1	1.9	1.0	.1	.6	.0	.0	19.3	
	11-21	.0	.0	5.4	2.3	.8	.0	.0	.0	.0	.0	8.5	
	22+	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.3	2.2	12.7	8.5	3.2	1.0	.1	.6	.0	1.1	31.7	
10+	0-3	.8	.3	1.8	2.5	1.3	.4	.0	1.1	.0	2.2	10.3	
	4-10	1.0	4.3	13.9	13.8	2.1	1.2	.9	1.9	.0	.0	39.1	
	11-21	.0	.1	6.1	4.7	.7	.3	.3	.0	.0	.0	12.1	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	1.9	4.8	21.8	21.3	4.1	1.9	1.2	3.0	.0	2.2	62.0	
TOT OBS													383
TOT PCT													100.0

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.5	13.6	13.6	4.5	.0	.0	.0	.0	36.4	63.6	22
06009	.0	.0	.0	4.8	9.5	.0	.0	.0	.0	.0	14.3	85.7	21
12015	.0	.0	.0	.0	.0	5.6	5.6	.0	.0	.0	11.1	88.9	18
18021	.0	.0	.0	.0	23.1	.0	.0	.0	.0	.0	23.1	76.9	13
TOT	0	0	1	4	8	2	1	0	0	0	16	58	74
PCT	.0	.0	1.4	5.4	10.8	2.7	1.4	.0	.0	.0	21.6	78.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.7	.0	1.4	4.3	27.1	61.4	70
06009	1.1	1.1	1.1	3.4	30.3	62.9	89
12015	1.2	.0	.0	4.8	26.2	67.9	84
18021	.0	.0	.8	2.3	42.4	54.5	132
TOT	6	1	3	13	124	228	375
PCT	1.6	.3	.8	3.5	33.1	60.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.5	22.7	13.6	63.6	22
06009	.0	.0	4.8	9.5	85.7	21
12015	.0	.0	.0	13.3	86.7	18
18021	.0	.0	.0	23.1	76.9	13
TOT	0	1	6	10	55	71
PCT	.0	1.4	8.5	14.1	77.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	4.4	7.1	1.1	.0	23	12.6
80/84	.0	.0	.0	.0	6.6	29.1	31.9	8.2	138	75.8
75/79	.0	.0	.0	.0	.0	3.3	4.4	3.3	20	11.0
70/74	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
TOTAL	0	0	0	0	20	73	68	21	182	100.0
PCT	.0	.0	.0	.0	11.0	40.1	37.4	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	1.4	6.0	2.5	.0	.5	.0	1.6	.0	.0
5.4	5.1	29.9	22.8	5.9	1.8	.0	1.6	.0	3.3
.5	.0	1.8	2.3	2.5	1.2	1.5	1.1	.0	.0
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
6.5	6.5	37.8	27.6	8.9	3.6	1.5	4.4	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	90	85	82	78	74	74	81.9	108
06009	94	90	88	83	80	76	75	83.5	187
12015	90	87	86	83	80	77	77	82.7	126
18021	85	84	84	82	79	78	77	81.5	236
TOT	94	89	86	82	79	77	74	82.4	657

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.7	45.9	37.8	13.5	81	37		
06009	.0	.0	27.1	41.7	25.0	6.3	76	48		
12015	.0	.0	10.5	44.7	36.8	7.9	79	38		
18021	.0	.0	4.3	33.3	46.4	15.9	82	69		
TOT	0	0	21	77	72	22	80	192		

JUNE

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1862-1972AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.9	.0	.0	2	.0	.9
5	.0	.5	.5	.9	.9	6	.0	2.7
4	.0	.5	1.8	.9	.0	7	.9	2.7
3	.0	.0	.5	2.3	.0	6	.0	2.7
2	.0	.5	5.0	4.5	.0	22	.9	9.0
1	.0	1.4	5.9	1.8	.0	20	3.2	5.9
0	.0	2.3	13.6	2.3	.0	40	1.4	16.7
-1	.0	1.8	13.6	.0	.0	34	.9	14.5
-2	.0	3.2	13.1	.0	.0	38	.9	15.6
-3	.0	1.4	4.5	.5	.0	14	.0	6.3
-4	.0	2.7	4.5	.0	.0	18	.0	7.2
-5	.0	1.8	2.7	.0	.0	10	.0	4.5
-6	.5	.5	.9	.0	.0	4	.0	1.8
-7/-8	.5	.5	.5	.0	.0	3	.0	1.4
-11/-13	.0	.5	.0	.0	.0	1	.0	.5
TOTAL	2	38	150	29	2	221	16	205
PCT	.9	17.2	67.9	13.1	.9	100.0	7.2	92.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	15.2	.0	.0	.0	.0	15.2	.0	15.2	9.1	.0	.0	.0	24.2
3-4	.0	2.3	11.4	.0	.0	.0	13.6	.0	.8	9.8	3.0	.0	.0	13.6
5-6	.0	.0	6.1	.0	.0	.0	6.1	.0	3.0	3.0	.0	.0	.0	6.1
7	.0	.0	2.3	3.0	.0	.0	5.3	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.4	19.7	3.0	.0	.0	40.2	.0	18.9	22.7	3.0	.0	.0	44.7

PERIOD: (OVER-ALL) 1963-1972

JUNE

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SW	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	4.5	.0	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	4.5	.0	.0	.0	.0	4.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NW	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	6.1	.0	.0	.0	.0	6.1	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	6.1	.0	.0	.0	.0	6.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	30.3	9.1	.0	.0	.0	39.4	.0
3-4	.0	18.2	21.2	9.0	.0	.0	42.4	.0
5-6	.0	3.0	9.1	.0	.0	.0	12.1	.0
7	.0	.0	3.0	9.0	.0	.0	6.1	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	51.5	42.4	6.1	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	32.3	11.3	11.3	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
6-7	.0	1.6	8.1	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	3.2	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDET	3.2	3.2	3.2	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
TOTAL	6	23	18	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
PCT	9.7	37.1	29.0	14.5	9.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JULY

AREA 0010 SOUTHWEST JAVA SEA
3.35 108.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	88.2
NE	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	3.5	10.6	.0	.0	.0	79.8
E	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	2.5	4.3	.0	1.2	.0	89.5
SE	.6	.0	.0	.0	.0	.0	.0	.6	1.1	1.1	2.8	.0	.0	.0	94.4
S	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	8.8	4.4	.0	.0	.0	84.6
SW	.0	10.0	.0	.0	.0	.0	.0	10.0	10.0	.0	10.0	.0	.0	.0	70.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.1	.0	76.9
NW	30.8	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	23.1	.0	47.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.2	1.2	.8	.0	.0	.0	.0	3.1	.8	2.4	4.3	.0	2.0	.0	87.4
TOT OBS:	254														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.0	.0	2.0	.0	.0	.0	.0	4.1	.0	.0	2.0	.0	.0	.0	93.9
06009	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	8.8	.0	5.9	.0	83.8
12015	1.7	1.7	.0	.0	.0	.0	.0	3.9	.0	1.7	3.3	.0	1.7	.0	90.0
18021	1.0	2.1	.0	.0	.0	.0	.0	3.1	2.1	5.2	4.1	.0	1.0	.0	84.5
TOT PCT	1.1	1.1	.7	.0	.0	.0	.0	2.9	.7	2.2	4.7	.0	2.2	.0	87.2
TOT OBS:	274														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.2	.1	.0	.0	.0		2.9	5.4		.9	.0	1.8	8.5	4.1	6.3	2.3	.7
NE	1.1	8.2	2.0	.0	.0	.0		11.4	7.5		3.9	4.5	3.3	20.5	27.0	6.3	11.9	5.8
E	1.4	19.6	8.5	.1	.0	.0		29.6	9.0		19.3	27.3	30.7	35.0	29.9	59.4	35.9	22.8
SE	3.1	20.9	9.8	.0	.0	.0		33.9	9.0		54.1	68.2	43.2	22.0	19.1	12.5	23.7	40.2
S	1.7	7.2	2.7	.0	.0	.0		11.7	7.8		15.7	.0	10.3	6.0	5.9	1.1	12.4	19.9
SW	.6	2.8	.4	.0	.0	.0		3.9	6.6		3.9	.0	5.1	1.5	2.9	6.3	4.7	4.3
W	1.2	1.1	.1	.0	.0	.0		2.4	4.0		2.2	.0	1.2	3.0	5.3	.0	.7	2.5
NW	.3	1.3	.1	.0	.0	.0		1.7	6.5		.0	.0	.7	2.5	4.1	.0	3.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	101	498	187	1	0	0		787	8.1		.0	.0	2.9	1.0	1.6	6.3	5.4	3.6
TOT PCT	12.8	63.3	23.4	.1	.0	.0		100.0			115	11	136	100	122	16	149	138

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.2	.7	.0	.0	.0	.0	2.9	5.4	.8	4.7	4.3	1.6	
NE	5.7	5.4	.3	.0	.0	.0	11.4	7.5	4.0	10.6	24.6	9.0	
E	9.2	18.7	1.7	.0	.0	.0	29.6	9.0	20.0	32.5	33.3	29.6	
SE	11.2	20.2	2.5	.0	.0	.0	33.9	9.0	55.4	34.2	18.3	31.6	
S	5.1	6.1	.4	.0	.0	.0	11.7	7.8	14.3	8.5	5.6	16.0	
SW	2.7	1.0	.3	.0	.0	.0	3.9	6.6	3.6	3.6	3.3	4.5	
W	2.2	.2	.0	.0	.0	.0	2.4	4.0	2.0	2.3	4.7	1.6	
NW	.8	.8	.0	.0	.0	.0	1.7	6.5	.0	1.5	3.6	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7					.0	2.7	.0	.0	.0	.0	.0	
TOT OBS	329	417	41	0	0	787	8.1		.0	2.1	2.2	4.5	
TOT PCT	41.8	53.0	5.2	.0	.0	100.0			126	236	138	287	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JULY

AREA 0010 SOUTHWEST JAVA SEA
5.58 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
00003	.0	10.3	57.1	32.5	.0	.0	.0	.0	9.2	100.0	126
06009	2.1	10.2	62.7	25.0	.0	.0	.0	.0	8.2	100.0	236
12015	2.2	10.9	70.3	16.7	.0	.0	.0	.0	7.3	100.0	138
18021	4.5	9.8	63.1	22.3	.3	.0	.0	.0	7.8	100.0	287
TOT	21	80	498	187	1	0	0	0	8.1		787
PCT	2.7	10.2	63.3	23.8	.1	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.8	2.9	1.5	2.9		4.6
E	17.6	10.3	10.7	.0		3.0
SE	14.7	11.0	11.4	.7		3.3
S	2.6	3.7	.0	.7		2.9
SW	1.3	.0	2.9	.0		4.6
W	.0	.0	.0	.0		.0
NW	.0	.0	1.5	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.5	.0	.0		3.0
TOT OBS	26	20	19	3	68	3.4
TOT PCT	38.2	29.4	27.9	4.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	6.3
.0	.0	.0	.0	2.9	.0	.7	.0	.0	1.5	39.5	
.0	.0	.0	.0	2.2	1.5	.7	.0	.0	.0	33.5	
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	6.3	
.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
0	0	0	1	4	2	2	0	0	1	58	68
.0	.0	.0	1.5	5.9	2.9	2.9	.0	.0	1.5	85.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)								
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	
= OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
= OR >1000	10.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
= OR >600	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >300	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >150	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >0	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
TOTAL	8	10	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 70

PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.3	29.3	21.3	14.7	10.7	1.3	1.3	8.0	4.0	75

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JULY

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	1.0	.6	.4	.0	.0	.0	.0	.0	2.4	
	TOT %	.0	.4	1.0	.6	.4	.0	.0	.0	.0	.0	2.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.0	.0	.0	.6	.6	.0	.0	1.6	
	TOT %	.0	.0	.4	.0	.0	.0	.6	.6	.0	.0	1.6	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.4	.2	.2	.4	.0	.8	.0	.0	2.0	
	NO PCP	2.0	9.7	11.1	14.9	4.3	2.0	2.0	.6	.0	.8	43.3	
	TOT %	2.0	9.7	11.5	15.1	4.5	2.4	2.0	1.4	.0	.8	45.3	
10+	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	1.4	4.2	18.6	18.4	4.0	1.6	.0	.6	.0	.0	48.8	
	TOT %	1.4	9.0	19.0	18.4	4.0	1.6	.0	.6	.0	.0	50.0	
TOT OBS													254
TOT PCT		3.3	11.1	31.9	34.8	9.0	3.9	2.6	2.6	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	1.1	
	11-21	.0	.0	.1	.1	.3	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.7	.4	.3	.0	.0	.0	.0	.0	1.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	4-10	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.0	.0	.0	.4	.4	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.8	1.0	.1	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.1	.0	.3	.8	.8	.3	.3	.1	.0	.6	3.4	
	4-10	1.1	3.8	4.8	7.6	2.0	1.1	1.4	.8	.0	.0	22.6	
	11-21	.1	.3	3.1	2.8	.7	.3	.0	.0	.0	.0	7.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	4.1	8.2	11.2	3.5	1.7	1.7	1.0	.0	.6	33.2	
10+	0-3	.4	1.5	.8	.8	.3	.0	.0	.0	.0	1.1	5.0	
	4-10	1.0	5.9	13.2	12.3	4.3	.8	.4	.0	.0	.0	39.9	
	11-21	.0	1.3	6.1	7.3	1.6	.3	.0	.0	.0	.0	16.8	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	1.4	8.7	22.3	20.7	6.2	1.1	.0	.4	.0	1.1	62.0	
TOT OBS													358
TOT PCT		2.8	13.1	32.3	33.4	10.1	2.8	2.1	1.8	.0	1.7	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972

JULY

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.3	15.8	5.3	.0	.0	.0	.0	26.3	73.7	19
06009	.0	.0	.0	.0	.0	6.7	6.7	.0	.0	.0	13.3	86.7	15
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	95.2	21
18021	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	10.5	89.5	19
TOT	0	0	0	1	4	2	2	0	0	1	10	64	74
PCT	.0	.0	.0	1.4	5.4	2.7	2.7	.0	.0	1.4	13.5	86.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.5	.0	.0	32.8	65.7	67
06009	.0	5.2	3.1	1.0	30.2	60.4	96
12015	.0	.0	1.2	6.2	28.4	64.2	81
18021	.0	.0	.7	.7	43.3	55.2	134
TOT	0	6	5	7	132	228	378
PCT	.0	1.6	1.3	1.9	34.9	60.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.6	22.2	72.2	18
06009	.0	.0	.0	13.3	86.7	15
12015	.0	.0	.0	5.3	94.7	19
18021	.0	.0	.0	11.1	88.9	18
TOT	0	0	1	9	60	70
PCT	.0	.0	1.4	12.9	85.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.2	1.7	.0	.0	7	3.9
80/84	.0	.0	.0	2.8	9.4	38.7	23.2	5.0	143	79.0
75/79	.0	.0	.0	.6	.0	6.1	8.3	2.2	31	17.1
TOTAL	0	0	0	6	21	84	57	13	181	100.0
PCT	.0	.0	.0	3.3	11.6	46.4	31.5	7.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.3	.3	1.9	.3	.8	.3	.0	.0	.0	.0
80/84	3.0	11.5	22.0	26.9	7.0	3.6	1.4	3.0	.0	.0
75/79	.3	.8	3.5	6.5	2.8	.6	2.2	.6	.0	.0
TOTAL	3.6	12.6	27.3	33.7	10.6	4.4	3.6	3.6	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	84	81	79	77	75	81.1	124
06009	89	88	86	83	80	77	76	82.8	227
12015	86	85	84	82	78	73	73	81.7	140
18021	87	84	83	81	78	75	75	80.5	294
TOT	89	86	85	82	78	75	73	81.5	785

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	50.0	43.8	6.3	20	32		
06009	.0	6.3	39.4	33.3	16.7	8.3	74	48		
12015	.0	2.4	7.1	64.3	23.8	2.4	77	42		
18021	.0	2.7	2.7	45.3	38.7	10.7	80	79		
TOT	0	6	22	93	61	15	78	197		

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1858-1972AREA 0010 SOUTHWEST JAVA SEA
5.55 108.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
7/8	.0	.0	.0	.5	.0	1	.0	.5
4	.0	.0	.5	1.4	.0	4	.0	1.9
3	.0	.0	2.3	.0	.0	5	.0	2.3
2	.0	.0	5.1	.9	.5	14	.0	6.5
1	.0	.9	4.7	1.4	.0	15	1.4	5.6
0	.0	2.8	28.6	1.4	.0	66	2.8	28.0
-1	.0	3.7	11.2	.0	.0	32	.5	14.5
-2	.0	4.7	15.0	.0	.0	42	.5	19.2
-3	.0	4.2	3.3	.0	.0	16	.5	7.0
-4	.9	3.7	1.4	.0	.0	13	.0	6.1
-5	.5	1.9	.5	.0	.0	6	.0	2.8
TOTAL	3	47	151	12	1	214	12	202
PCT	1.4	22.0	70.6	5.6	.5	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	6.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	9.7	.0	.0	.0	.0	9.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	3.2	8.1	6.5	.0	.0	.0	17.7	3.2	8.1	.0	.0	.0	.0	11.3
3-4	.0	.0	18.9	.0	.0	.0	18.9	.0	.0	15.3	.0	.0	.0	15.3
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	4.8	.0	.0	.0	4.8
7	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	8.1	28.2	.0	.0	.0	39.5	3.2	8.1	24.2	.0	.0	.0	35.5

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.2	.0	.0	.0	3.2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.6	.0	.0	.0	5.6	.0	3.2	3.2	.0	.0	.0	6.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.2	.0	.0	.0	.0	3.2	
1-2	6.5	29.0	9.7	.0	.0	.0	45.2	
3-4	.0	.0	32.3	.0	.0	.0	32.3	
5-6	.0	.0	12.9	.0	.0	.0	12.9	
7	.0	.0	3.2	.0	.0	.0	3.2	
8-9	.0	.0	3.2	.0	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	32.3	61.3	.0	.0	.0	100.0	31

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	29.4	15.7	5.9	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	3
6-7	.0	3.9	9.8	13.7	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
8-9	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.0	3.9	3.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
TOTAL	2	19	16	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	51	3
PCT	3.9	37.3	31.4	21.6	3.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	92.9
NE	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	2.3	.0	.0	9.2	.0	85.5
E	.0	1.2	.0	.0	.0	.0	.0	1.2	.0	2.7	.0	.0	5.2	.0	90.3
SE	1.0	1.0	.0	.0	.0	.0	.0	2.1	.5	1.0	.0	.0	2.9	.0	93.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	96.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.6	.0	84.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.4	.7	.4	.0	.0	.0	.0	1.5	.4	1.5	.0	.0	5.2	.0	91.5
TOT OBS:	271														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
00003	.0	.0	.0	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	5.6	.0	90.7
06009	.0	1.3	1.3	.0	.0	.0	.0	2.6	.0	.0	.0	.0	7.7	.0	89.7
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	6.3	.0	92.2
18021	1.2	1.2	.0	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	5.8	.0	89.3
TOT PCT TOT OBS:	.4 282	.7	.4	.0	.0	.0	.0	1.4	.4	1.4	.0	.0	6.4	.0	90.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	2.0	.7	.0	.0	.0		3.4	7.1	.4	.0	.0	7.5	9.1	5.3	4.1	1.1
NE	1.3	7.8	1.9	.0	.0	.0		11.0	7.9	2.9	11.1	3.6	20.5	28.3	10.5	11.9	3.3
E	2.9	22.2	9.0	.7	.0	.0		34.8	9.1	23.2	22.2	32.8	42.5	39.3	42.1	39.3	33.1
SE	1.5	14.5	11.4	1.0	.0	.0		32.4	10.1	50.2	30.6	45.9	19.0	15.9	15.8	23.9	36.8
S	.6	6.9	2.4	.1	.0	.0		9.9	8.5	15.2	30.6	10.4	1.5	.8	26.3	8.3	16.9
SW	.6	1.8	.8	.0	.0	.0		3.2	7.6	4.9	5.6	1.3	2.0	.0	.0	5.2	5.9
W	.2	.9	.1	.0	.0	.0		1.2	6.6	.8	.0	1.7	.0	1.7	.0	2.6	.4
NW	.1	.8	.0	.0	.0	.0		.8	6.1	.0	.0	.3	2.0	1.7	.0	1.1	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	88	483	208	14	0	0		793	3.3	2.5	.0	4.0	5.0	3.3	.0	3.7	2.2
TOT PCT	11.1	60.9	26.2	1.8	.0	.0		100.0	8.8	122	9	131	100	121	19	133	136

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	12	15	18	21
N	1.8	1.6	.0	.0	.0			3.4	7.1		.4	.0	.0	8.6	2.6		
NE	1.2	6.5	.3	.0	.0			11.0	7.9		3.4	10.4	25.9	7.6			
E	10.4	22.3	2.0	.1	.0			34.8	9.1		23.1	38.7	39.6	36.2			
SE	8.1	20.6	3.5	.1	.0			32.4	10.1		48.9	33.2	15.9	30.4			
S	3.8	5.7	.4	.0	.0			9.9	8.5		16.2	6.9	4.3	12.6			
SW	1.3	1.6	.1	.0	.0			3.2	7.6		5.0	1.6	.0	5.5			
W	.7	.5	.0	.0	.0			1.2	6.6		.8	.0	1.4	1.5			
NW	.6	.3	.0	.0	.0			.8	6.1		.0	.0	1.4	.7			
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0			
CALM	3.3							3.3	.0		2.3	4.4	2.9	3.0			
TOT OBS	272	469	31	1	0			793	8.8		131	231	140	271			
TOT PCT	34.3	59.1	6.4	.1	.0			100.0			100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1880-1972

AUGUST

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
00003	2.3	7.6	58.8	29.8	1.5	.0	.0	9.1	100.0	131
06009	4.4	7.6	58.6	27.5	2.0	.0	.0	9.0	100.0	251
12015	2.9	9.3	65.7	20.7	1.4	.0	.0	8.4	100.0	140
18021	3.0	7.4	61.6	26.2	1.8	.0	.0	8.6	100.0	271
TOT	26	62	483	208	14	0	0	8.8		793
PCT	3.3	7.8	60.9	26.2	1.8	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	.0	1.1	.0		2.3
NE	.0	4.0	.0	1.1		4.3
E	11.2	11.2	5.7	.9		3.0
SE	16.4	14.7	14.4	2.6		3.4
S	.0	2.6	1.7	.0		4.5
SW	.0	1.1	.0	.0		3.0
W	.0	1.1	.0	1.1		6.0
NW	.0	.0	1.1	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	2.3	.0		4.3
TOT OBS	27	37	23	5	87	3.5
TOT PCT	31.0	36.8	26.4	5.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
NE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	6.0	
E	.0	.0	.9	2.0	.0	1.1	.0	.0	.0	.0	23.0	
SE	.0	.0	.3	.3	1.1	2.3	.0	.0	.0	.0	44.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
TOT OBS	27	37	23	5							87	
TOT PCT	31.0	36.8	26.4	5.7	1.1	3.4	1.1	3.4	.0	.0	90.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >1000	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >600	3.4	6.9	8.0	8.0	8.0	8.0	8.0	8.0
= OR >300	4.6	8.0	9.2	9.2	9.2	9.2	9.2	9.2
= OR >150	4.6	8.0	9.2	9.2	9.2	9.2	9.2	9.2
= OR >0	4.6	8.0	9.2	9.2	9.2	9.2	9.2	9.2
TOTAL	4	7	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 87

PCT FREQ NH <5/8: 90.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.1	16.1	24.7	18.3	15.1	3.2	2.2	3.2	1.1	.0	93

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.7	.6	.6	.4	.7	.0	.0	.0	.0	3.3	
	TOT %	.4	.7	.6	.6	.4	.7	.0	.0	.0	.0	3.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.3	.2	.3	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.3	.2	.3	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	2.0	3.7	7.8	13.7	3.5	3.1	.2	.6	.0	.0	34.7	
	TOT %	2.0	3.7	8.2	14.1	3.5	3.1	.2	.6	.0	.0	35.4	
10+	PCP	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	2.8	7.3	21.3	20.2	5.1	.9	.7	.4	.0	1.1	59.8	
	TOT %	2.8	7.7	21.3	20.6	5.1	.9	.7	.4	.0	1.1	60.5	
TOT OBS													271
TOT PCT		9.2	12.1	30.4	35.4	9.2	4.8	.9	.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	4-10	.3	.5	.4	.4	.3	.3	.0	.0	.0	.0	2.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.5	.4	.4	.3	.3	.0	.0	.0	.0	2.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.3	
5<10	0-3	.3	.4	.6	.1	.4	.8	.0	.0	.0	.3	2.9	
	4-10	1.2	1.6	4.0	7.6	2.6	1.3	.1	.4	.0	.0	18.7	
	11-21	.1	.9	1.4	3.5	.0	.3	.0	.0	.0	.0	6.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.6	2.9	6.0	11.2	3.0	2.3	.1	.4	.0	.3	27.8	
10+	0-3	.5	1.4	1.1	.3	.4	.1	.3	.0	.0	2.3	6.3	
	4-10	1.0	6.6	19.3	13.6	2.8	.6	.3	.5	.0	.0	44.9	
	11-21	.6	1.7	6.8	6.7	1.4	.4	.0	.0	.0	.0	17.7	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.2	9.7	27.4	20.9	4.6	1.2	.3	.5	.0	2.3	69.4	
TOT OBS													385
TOT PCT		4.0	13.1	34.0	32.7	8.1	4.0	.6	.9	.0	2.6	100.0	

AUGUST

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.0	.0	8.0	.0	.0	.0	.0	12.0	88.0	25
06009	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	.0	8.3	91.7	24
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	26
18021	.0	.0	.0	5.9	5.9	5.9	.0	.0	.0	.0	17.6	82.4	17
TOT	0	0	1	3	1	3	0	0	0	0	8	84	92
PCT	.0	.0	1.1	3.3	1.1	3.3	.0	.0	.0	.0	8.7	91.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<7	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.4	1.4	37.0	60.3	73
06009	.0	.0	3.6	.9	22.5	73.0	111
12015	.0	.0	3.6	.0	15.5	81.0	84
18021	.0	.0	3.1	.0	36.7	60.2	128
TOT	0	0	12	2	112	270	396
PCT	.0	.0	3.0	.3	28.3	68.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.2	8.3	77.5	24
06009	.0	4.8	14.3	.0	85.7	21
12015	.0	.0	.0	.0	100.0	26
18021	.0	.0	6.3	12.5	81.3	16
TOT	0	1	5	4	78	87
PCT	.0	1.1	5.7	4.6	89.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.5	4.6	.5	.0	13	6.6
80/84	.0	.0	.0	.5	6.6	36.7	38.3	2.0	165	84.2
75/79	.0	.0	.0	.0	.0	3.1	5.1	1.0	18	9.2
TOTAL	0	0	0	1	16	87	86	6	196	100.0
PCT	.0	.0	.0	.5	8.2	44.4	43.9	3.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	1.3	2.3	1.4	.6	.0	.0	.0	.0	.5
4.1	9.8	25.1	32.3	6.0	2.6	1.3	1.3	.0	.5
.5	.3	1.7	4.0	1.0	1.3	.0	.0	.0	.5
5.1	11.4	29.3	37.6	7.7	4.8	1.3	1.3	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	84	83	81	78	77	76	80.6	128
06009	92	89	87	82	80	78	76	82.9	242
12015	85	84	84	82	79	78	75	81.6	135
18021	86	85	83	81	77	75	74	80.5	273
TOT	92	88	85	81	78	76	74	81.4	778

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.0	42.5	45.0	7.5	81	40		
06009	.0	.0	19.3	49.1	28.1	3.5	75	57		
12015	.0	.0	14.3	35.7	47.6	2.4	78	42		
18021	.0	1.5	1.5	45.6	50.0	1.5	80	88		
TOT	0	1	20	91	88	7	78	207		

PERIOD: (PRIMARY) 1911-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.4	1	.0	.4
4	.4	1.3	.9	.4	7	.0	3.1
3	.4	1.3	.4	.0	5	.0	2.2
2	.0	8.4	1.8	.0	24	.0	10.7
1	1.3	12.0	.9	.0	32	.0	14.2
0	4.9	21.8	1.3	.0	69	.0	28.0
-1	6.2	8.4	.0	.0	33	.0	14.7
-2	8.0	9.3	.0	.0	39	.0	17.3
-3	2.7	.0	.0	.0	6	.0	2.7
-4	3.6	1.3	.0	.0	11	.0	4.9
-5	.9	.0	.0	.0	2	.0	.9
-6	.9	.0	.0	.0	2	.0	.9
TOTAL	67	144	12	2	225	0	225
PCT	29.8	64.0	5.3	.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	2.6	2.6	.0	.0	.0	.0	5.1

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	3.2
1-2	.0	14.1	1.9	.0	.0	.0	16.0	.0	.0	19.2	.0	.0	.0	.0	.0	19.9
3-4	.0	9.1	9.1	.0	.0	.0	10.3	.0	.0	2.6	15.4	.0	.0	.0	.0	17.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	.0	.0	.0	.0	12.8
7	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.2	9.6	.0	.0	.0	28.8	.0	.0	27.6	26.3	2.6	.0	.0	.0	56.4

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.9	.0	.0	.0	.0		1.9	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	2.6	.0	.0	.0		2.6
3-4	.0	2.6	.0	.0	.0	.0		2.6	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.5	.0	.0	.0	.0		4.5	.0	.0	2.6	.0	.0	.0		2.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	5.1	.0	.0	.0	.0	5.1	
1-2	.0	33.3	7.7	.0	.0	.0	41.0	
3-4	.0	12.8	20.5	.0	.0	.0	33.3	
5-6	.0	2.6	10.3	.0	.0	.0	12.8	
7	.0	.0	5.1	2.6	.0	.0	7.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	53.8	43.6	2.6	.0	.0	100.0	39

PERIOD: (OVER-ALL) 1990-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.7	25.3	22.7	8.0	5.3	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
6-7	.0	1.3	8.0	2.7	1.3	2.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
8-9	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
INDET	8.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	11	21	23	9	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	75	3
PCT	16.7	28.0	30.7	12.0	6.7	6.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
9.45 108.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	4.0	.0	88.0
NE	.9	.0	1.8	.0	.0	.0	.0	2.7	.0	3.5	3.5	.0	7.1	.0	83.2
E	1.2	.0	.8	.0	.0	.0	.0	2.0	1.6	1.6	.0	.0	12.1	.0	82.7
SE	2.4	1.6	.0	.0	.0	.0	.0	4.0	.0	4.8	1.6	.0	2.4	.0	88.8
S	2.2	6.5	.0	.0	.0	.0	.0	8.7	.0	.0	4.3	.0	6.5	.0	80.4
SW	9.3	14.0	.0	.0	.0	.0	.0	23.3	.0	11.6	18.6	.0	9.3	.0	46.5
W	24.2	.0	12.1	.0	.0	.0	.0	38.4	.0	45.5	6.1	.0	.0	.0	36.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	8.3	.0	.0	.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	16.7	.0	.0	.0	.0	16.7	.0	16.7	.0	.0	.0	.0	66.7
TOT PCT	2.7	1.8	1.4	.0	.0	.0	.0	5.9	.5	5.5	3.2	.0	6.4	.0	80.4
TOT OBS:	219														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	2.4	2.4	.0	.0	.0	.0	4.9	.0	.0	.0	.0	4.9	.0	90.2
06009	1.8	1.8	.0	.0	.0	.0	.0	3.6	.0	.0	1.8	.0	9.1	.0	85.5
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	4.3	.0	85.1
18021	6.3	2.5	2.5	.0	.0	.0	.0	11.3	1.3	11.3	5.0	.0	6.3	.0	70.0
TOT PCT	2.7	1.8	1.3	.0	.0	.0	.0	5.8	.4	5.4	3.1	.0	6.3	.0	80.7
TOT OBS:	223														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	2.8	.4	.0	.0	.0		4.0	6.3	1.9	.0	.9	10.8	9.4	7.1	2.1	1.1	
NE	1.1	8.9	2.7	.0	.0	.0		12.7	7.9	5.6	14.3	3.0	27.8	26.7	17.9	13.6	4.2	
E	2.0	18.8	7.0	.1	.0	.0		27.9	8.6	22.5	28.6	30.2	34.9	32.3	35.7	25.5	21.6	
SE	2.4	21.2	8.5	.2	.0	.0		32.3	8.7	44.7	42.9	49.1	14.6	15.8	10.7	28.2	37.1	
S	1.0	7.2	2.1	.0	.0	.0		10.3	7.8	19.0	14.3	7.3	1.4	4.3	14.3	10.6	18.6	
SW	.3	2.6	.7	.1	.0	.0		3.9	8.1	1.9	.0	4.7	.9	1.7	.0	9.1	8.0	
W	.3	1.6	.3	.1	.0	.0		2.3	7.3	.9	.0	.9	1.9	1.3	7.1	4.8	3.4	
NW	.6	1.3	.0	.0	.0	.0		2.0	5.0	.0	.0	.6	4.7	4.3	.0	1.1	2.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.6							4.6	.0	3.7	.0	3.2	2.8	4.3	7.1	9.2	3.8	
TOT OBS	104	507	169	4	0	0	784		7.9	108	7	158	106	117	14	142	132	
TOT PCT	13.3	64.7	21.6	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	06	12	18	21
N	2.4	1.8	.0	.0	.0	.0	4.0	1.7	4.9	9.2	1.6	
NE	5.7	6.7	.3	.0	.0	.0	12.7	6.1	13.0	25.8	9.0	
E	9.2	17.8	.9	.0	.0	.0	27.9	22.8	32.1	32.6	23.6	
SE	10.8	20.2	1.3	.0	.0	.0	32.3	44.6	35.2	15.3	32.5	
S	5.1	4.7	.5	.0	.0	.0	10.3	18.7	9.9	5.3	14.4	
SW	1.7	2.0	.1	.0	.0	.0	3.9	1.7	3.2	1.5	6.3	
W	1.4	.8	.1	.0	.0	.0	2.3	.9	1.3	1.9	4.1	
NW	1.5	.3	.0	.0	.0	.0	2.0	.0	2.3	3.8	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.6						4.6	3.5	3.0	4.6	6.6	
TOT OBS	333	425	26	0	0	784		115	264	191	274	
TOT PCT	42.5	54.2	3.3	.0	.0		100.0	100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.49 108.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.5	5.2	59.1	32.2	.0	.0	.0	8.7	100.0	115
0600	3.0	10.2	65.5	20.5	.8	.0	.0	8.0	100.0	264
1200	4.6	8.4	63.4	23.7	.0	.0	.0	7.8	100.0	131
1800	6.6	8.8	66.8	17.2	.7	.0	.0	7.4	100.0	274
TOT	36	68	507	169	4	0	0	7.9		784
PCT	4.6	8.7	64.7	21.6	.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & NBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.7	.0	.0		4.0
NE	3.4	.0	3.4	.4		3.7
E	5.9	11.4	9.7	3.0		4.1
SE	11.4	8.9	16.1	3.4		4.2
S	4.7	1.7	1.3	.0		2.4
SW	3.4	.0	.4	.0		1.2
W	.0	.0	1.3	.0		7.0
NW	1.7	.0	.0	.0		1.3
VAR	.0	.0	.0	.0		.0
CALM	3.4	.0	3.4	.0		2.7
TOT OBS	20	14	21	4	59	3.7
TOT PCT	33.9	23.7	35.6	6.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	6.8	
E	.0	.0	.0	.0	5.5	.0	1.3	.0	.0	.0	23.3	
SE	.0	.0	.0	1.7	2.5	.0	.4	.0	.0	.0	33.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	
SW	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.4	
W	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	3.1	
TOT OBS	0	0	0	2	6	0	1	0	0	0	49	
TOT PCT	.0	.0	.0	3.4	10.2	.0	1.7	.0	.0	1.7	83.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

	VSBY (NH)							
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >5000	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >2000	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >1000	13.1	13.1	14.8	14.8	14.8	14.8	14.8	14.8
= OR >600	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
= OR >300	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
= OR >150	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
= OR >0	16.4	16.4	18.0	18.0	18.0	18.0	18.0	18.0
TOTAL	10	10	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 61

PCT FREQ NH <5/8: 82.0

TABLE 7A

PERCENTAGE FREQ C- LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	22.2	16.7	26.4	9.7	8.3	6.9	2.8	4.2	2.8	.0	72

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

SEPTEMBER

AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.3	.5	.0	.0	.2	.2	.0	.0	.0	1.4
	TOT %	.0	.1	.3	.5	.0	.0	.2	.2	.0	.0	.0	1.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.9	1.6	.2	.7	.0	.0	.0	.0	.0	.0	3.7
	TOT %	.2	.9	1.6	.2	.7	.0	.0	.0	.0	.0	.0	3.7
2<5	PCP	.0	.1	.3	.0	.0	.0	.5	.0	.0	.0	.0	.9
	NO PCP	.0	.0	.0	.0	.4	.0	.0	.5	.0	.0	.0	1.4
	TOT %	.0	.1	.3	.0	.9	.0	.5	.5	.0	.0	.0	2.3
5<10	PCP	.0	.2	.2	1.1	.9	1.1	.9	.0	.0	.5	.5	5.0
	NO PCP	2.9	4.1	6.6	7.4	2.9	2.7	.9	1.6	.0	.9	.9	29.7
	TOT %	2.9	4.3	6.8	8.6	3.8	3.9	1.8	1.6	.0	1.4	1.4	34.7
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	7.4	19.2	19.2	5.1	1.0	1.3	.5	.0	1.4	1.4	58.0
	TOT %	3.0	7.4	19.2	19.2	5.1	1.0	1.3	.5	.0	1.4	1.4	58.0
TOT OBS													219
TOT PCT		5.7	12.9	28.3	28.4	10.5	4.9	3.8	2.7	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.2	.0	.0	.0	.2	.2	.0	.0	.0	.6
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.2	.3	.0	.0	.2	.2	.0	.0	.0	.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.6	.5	.2	.5	.0	.0	.0	.0	.0	.0	1.8
	11-21	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.6	1.1	.2	.5	.0	.0	.0	.0	.0	.0	2.4
2<5	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6
	11-21	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.2	.0	.6	.0	.3	.3	.0	.0	.0	1.5
5<10	0-3	.0	.0	.2	.2	.2	.2	.3	.6	.0	.9	.9	2.4
	4-10	1.8	2.7	2.6	3.8	1.4	1.7	.9	.5	.0	.0	.0	15.4
	11-21	.2	.2	2.1	2.1	1.1	.8	.0	.0	.0	.0	.0	6.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.0	2.9	4.8	6.1	2.6	2.6	1.2	1.1	.0	.9	.9	24.1
10+	0-3	1.4	1.1	1.8	1.2	.9	.3	.0	.6	.0	3.6	3.6	10.8
	4-10	1.1	4.9	15.4	15.8	6.0	1.0	.7	.6	.0	.0	.0	45.5
	11-21	.3	2.9	3.7	6.6	.7	.3	.0	.0	.0	.0	.0	14.5
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
	TOT %	2.7	8.8	20.9	23.6	7.6	1.6	1.0	1.2	.0	3.6	3.6	71.1
TOT OBS													332
TOT PCT		4.8	12.4	27.3	30.2	11.3	4.1	2.6	2.7	.0	4.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.8	14.3	.0	.0	.0	.0	.0	19.0	81.0	21
06009	.0	.0	.0	.0	5.9	.0	5.9	.0	.0	.0	11.8	88.2	17
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	15
18021	.0	.0	.0	5.6	11.1	.0	.0	.0	.0	11.1	27.8	72.2	18
TOT	0	0	0	2	6	0	1	0	0	2	11	60	71
PCT	.0	.0	.0	2.8	8.5	.0	1.4	.0	.0	2.8	15.5	84.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	3.7	.0	20.4	75.9	34
06009	.0	.0	2.2	2.2	18.9	76.7	90
12015	.0	3.0	3.0	.0	14.9	79.1	67
18021	.0	.8	1.6	2.4	34.4	60.8	125
TOT	0	3	8	5	81	239	336
PCT	.0	.9	2.4	1.5	24.1	71.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.6	16.7	77.8	18
06009	.0	.0	6.7	6.7	86.7	15
12015	.0	.0	.0	.0	100.0	13
18021	.0	.0	6.7	26.7	66.7	15
TOT	0	0	3	8	50	61
PCT	.0	.0	4.9	13.1	82.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.7	1.4	.0	.0	.0	3	2.0
85/89	.0	.0	.0	.7	2.7	.7	.0	.0	7	4.8
80/84	.0	.0	.0	.0	5.4	31.3	31.3	7.5	111	75.5
75/79	.0	.0	.0	.0	.7	6.1	6.8	3.4	25	17.0
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	2	15	36	57	17	147	100.0
PCT	.0	.0	.0	1.4	10.2	38.1	38.8	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.9	.2	.0	.0	.0	.0	.0	.0
1.0	.3	.7	2.0	.0	.0	.0	.7	.0	.0
4.1	12.6	18.9	21.8	6.6	3.9	1.9	3.1	.0	2.7
.0	.2	3.1	5.6	3.4	2.0	1.7	.3	.0	.7
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
5.1	13.1	24.5	29.6	10.7	6.0	3.6	4.1	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	84	81	78	73	73	81.2	111
06009	90	89	87	83	80	78	77	83.5	247
12015	86	85	84	82	80	79	79	81.9	128
18021	85	84	83	81	77	76	74	80.6	270
TOT	90	88	86	82	78	76	73	81.9	756

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.6	3.6	42.9	39.3	10.7	79	28		
06009	.0	.0	31.4	45.7	20.0	2.9	74	35		
12015	.0	.0	10.0	50.0	30.0	10.0	79	30		
18021	.0	1.7	1.7	25.9	53.4	17.2	83	58		
TOT	0	2	16	58	58	17	79	151		

SEPTEMBER

PERIOD: (PRIMARY) 1905-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.6E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	M FOG	MU FOG
7/8	.0	.0	.0	.6	1.1	3	.0	1.7
6	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	.6	2.3	.0	5	.0	2.9
4	.0	.0	1.1	.6	.6	4	.0	2.3
3	.0	.0	.6	.0	.0	1	.0	.6
2	.0	.0	9.7	1.7	.0	20	.0	11.4
1	.0	.0	7.4	1.1	.0	15	.6	8.0
0	.0	2.3	26.3	.0	.0	50	.0	28.6
-1	.0	3.4	10.3	.0	.0	24	.0	13.7
-2	.0	5.1	10.3	.0	.0	27	.0	15.4
-3	.0	4.6	2.9	.0	.0	13	.6	6.9
-4	.0	2.9	1.1	.0	.0	7	.6	3.4
-5	.6	1.1	.0	.0	.0	3	.0	1.7
-6	.0	.0	.6	.0	.0	1	.0	.6
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	2	34	124	11	4	175	3	172
PCT	1.1	19.4	70.9	6.3	2.3	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	0	.0	.0	.0	.0	.0	0	3.0	3.8	.0	.0	.0	6.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.3	.0	.0	.0	.0	2.3	3.0	3.8	.0	.0	.0	.0	6.8
1-2	.0	13.6	2.3	.0	.0	.0	15.9	.0	10.6	7.6	.0	.0	.0	18.2
3-4	.0	.0	5.3	.0	.0	.0	5.3	.0	3.0	9.1	.0	.0	.0	12.1
5-6	.0	2.3	2.3	.0	.0	.0	4.3	.0	.8	6.8	.0	.0	.0	7.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.2	9.8	.0	.0	.0	28.0	3.0	18.2	23.5	.0	.0	.0	44.7

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	3.0	.0	.0	.0	.0	.0		3.0	.0	.0	.0	.0	.0	.0		3.0
1-2	.0	3.0	2.3	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	3.0	3.0	2.3	.0	.0	.0		8.3	3.0	.0	.0	.0	.0	.0		3.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	90.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.0	11.4	.0	.0	.0	.0	31.4	
1-2	.0	25.7	11.4	.0	.0	.0	37.1	
3-4	.0	2.9	14.3	.0	.0	.0	17.1	
5-6	.0	2.9	11.4	.0	.0	.0	14.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.0	42.9	37.1	.0	.0	.0	100.0	35

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.8	39.0	18.6	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
6-7	.0	3.4	5.1	3.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
8-9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	10.2	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	10	25	16	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	59	2
PCT	16.9	42.4	27.1	8.5	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1897-1972

OCTOBER

AREA 0010 SOUTHWEST JAVA SEA
5.95 106.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WHD DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	16.0	.0	.0	16.0	.0	68.0
NE	.0	.0	3.8	.0	.0	.0	.0	3.8	.0	7.5	1.9	.0	9.4	.0	77.4
E	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.6	.8	.0	6.8	.0	86.1
SE	7.7	1.9	.0	.0	.0	.0	.0	9.6	.0	8.1	5.7	.0	1.0	.0	79.4
S	.0	7.0	.0	.0	.0	.0	.0	7.0	.0	.0	3.5	.0	3.5	.0	86.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	16.7	.0	80.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	8.1	.0	89.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	96.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1	11.1	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	11.1	.0	66.7
TOT PCT	2.4	1.6	.4	.0	.0	.0	.0	4.5	.4	4.9	2.4	.0	6.9	.0	82.0
TOT OBS:	245														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00Z03	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	3.9	.0	11.8	.0	82.4
06Z09	3.6	2.4	1.2	.0	.0	.0	.0	7.1	.0	1.2	.0	.0	11.9	.0	81.0
12Z15	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	3.5	3.5	.0	5.3	.0	84.2
18Z21	4.4	3.3	.0	.0	.0	.0	.0	7.8	1.1	12.2	2.2	.0	2.2	.0	77.8
TOT PCT TOT OBS:	3.2	2.1	.4	.0	.0	.0	.0	5.7	.4	5.0	2.1	.0	7.4	.0	80.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.3	3.1	.6	.1	.0	.0	5.1	6.2	3.2	.0	.4	15.6	7.1	4.5	5.2	3.4	
NE	2.1	7.5	.8	.1	.0	.0	10.4	6.8	4.8	5.6	9.8	20.6	15.0	13.6	10.1	4.4	
E	2.3	15.2	4.1	.1	.0	.0	21.7	7.9	10.9	38.9	25.9	26.9	25.2	40.9	23.0	13.6	
SE	3.3	14.6	4.8	.0	.0	.0	22.6	7.8	33.8	22.2	27.4	13.1	15.7	22.7	19.9	24.8	
S	2.2	10.7	1.5	.0	.0	.0	14.5	6.8	21.3	22.2	9.8	2.5	9.5	.0	16.7	27.2	
SW	1.7	7.2	.9	.0	.0	.0	9.8	6.3	18.0	.0	12.4	2.5	4.8	4.5	8.6	14.6	
W	2.2	2.6	.2	.0	.0	.0	5.0	4.5	4.8	.0	4.1	5.6	4.8	4.5	5.4	5.8	
NW	.9	4.1	.7	.1	.0	.0	5.7	7.0	2.1	11.1	4.9	11.9	6.3	9.1	5.9	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1						5.1	.0	3.2	.0	5.3	1.3	9.5	.0	6.3	4.9	
TOT OBS	136	420	88	2	0	0	646	6.7	94	9	133	80	105	11	111	103	
TOT PCT	21.1	65.0	13.6	.3	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.6	1.4	.2	.0	.0	5.1	5.2	2.9	6.1	6.9	4.3		
NE	5.4	4.8	.2	.0	.0	10.4	6.8	4.9	13.8	14.9	7.4		
E	10.2	10.0	1.5	.0	.0	21.7	7.9	13.3	26.3	26.7	18.5		
SE	10.3	11.3	1.1	.0	.0	22.6	7.8	32.8	22.1	18.4	21.7		
S	7.8	6.5	.2	.0	.0	14.5	6.8	21.4	7.0	4.6	21.7		
SW	6.5	2.9	.4	.0	.0	9.8	6.3	14.6	8.7	4.7	11.4		
W	4.0	.9	.0	.0	.0	5.0	4.5	4.4	4.7	4.7	5.6		
NW	3.6	1.7	.4	.0	.0	5.7	7.0	2.9	7.5	8.4	3.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.1					5.1	.0	2.9	3.8	8.6	5.6		
TOT OBS	365	256	25	0	0	646	6.7	102	213	116	214		
TOT PCT	56.5	39.6	3.9	.0	.0	100.0		100.0	100.0	100.0	100.0		

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.9	14.6	66.0	15.5	1.0	.0	.0	.0	7.3	100.0	103
06009	3.8	12.7	70.9	12.2	.3	.0	.0	.0	6.9	100.0	213
12015	8.6	19.0	58.6	13.8	.0	.0	.0	.0	6.5	100.0	116
18021	5.6	18.2	62.1	14.0	.0	.0	.0	.0	6.5	100.0	214
TOT	33	103	420	88	2	0	0	0	6.7		646
PCT	5.1	15.9	65.0	13.6	.3	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.5	.0	1.1		4.0
NE	4.9	.0	1.5	4.5		4.5
E	6.1	14.0	4.9	1.5		3.6
SE	7.6	12.1	12.1	4.5		4.6
S	1.5	2.7	4.2	.0		4.0
SW	1.5	.0	.0	.0		2.0
W	.0	1.5	.0	.0		4.0
NW	.0	1.5	3.0	.4		5.5
VAR	.0	.0	.0	.0		4.0
CALM	1.5	1.5	1.5	1.5		4.5
TOT OBS	16	23	18	9	66	4.2
TOT PCT	24.2	34.8	27.3	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	499	999	1999	3999	4999	6499	7999			
.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	2.7	
.0	.0	.0	1.5	1.5	.0	.0	.0	.0	.0	8.0	
.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	25.4	
.0	.0	1.9	3.0	1.5	1.5	.0	.0	.0	.0	28.4	
.0	.0	.0	.0	1.5	.0	.0	.0	1.5	.0	5.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	3.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	3.0	
.0	.0	.0	3	6	3	1	0	1	0	52	66
.0	.0	.0	4.5	9.1	4.5	1.5	.0	1.5	.0	78.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>2000	5.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>1000	14.1	15.5	15.5	15.5	15.5	15.5	15.5	15.5
>600	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
>300	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
>150	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
>0	15.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
TOTAL	11	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 71

PCT FREQ NH <5/8: 80.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.4	13.9	19.5	19.5	14.6	6.1	2.4	2.4	6.1	.0	82

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

OCTOBER

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.0	1.2	.2	.6	1.2	.8	.2	.0	.4	5.3	5.3
	TOT %	.8	.0	1.2	.2	.6	1.2	.8	.2	.0	.4	5.3	5.3
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
5<10	PCP	.4	.4	.0	1.6	.4	.0	.0	.0	.0	.8	3.7	3.7
	NO PCP	3.6	5.9	8.6	6.3	5.3	4.5	5.1	2.8	.0	1.2	43.3	43.3
	TOT %	4.0	6.3	8.6	8.0	5.7	4.5	5.1	2.8	.0	2.0	46.9	46.9
10+	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.8	.8
	NO PCP	2.9	4.5	14.0	12.3	4.9	1.6	1.8	2.9	.0	1.2	46.1	46.1
	TOT %	2.9	4.5	14.0	12.8	5.3	1.6	1.8	2.9	.0	1.2	46.9	46.9
TOT OBS													
TOT PCT													
		7.7	10.8	24.2	21.3	11.6	7.3	7.6	5.8	.0	3.7	100.0	245

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3
	4-10	.3	.0	1.0	.0	.3	.3	.2	.0	.0	.0	2.6	2.6
	11-21	.3	.0	.0	.2	.2	.6	.0	.0	.0	.0	1.3	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	1.0	.2	.5	1.0	.3	.2	.0	.3	4.2	4.2
2<5	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	.6
	4-10	.0	.0	.5	.5	.3	.0	.0	.0	.0	.0	1.3	1.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	.5	.6	.0	.3	.0	.0	.3	1.9	1.9
5<10	0-3	1.0	.8	.8	1.3	.6	.6	2.2	.9	.0	1.6	9.3	9.3
	4-10	1.5	3.4	3.5	4.0	3.2	2.7	1.4	1.7	.0	.0	21.5	21.5
	11-21	1.0	.8	2.4	1.0	.6	.2	.3	.2	.0	.0	6.4	6.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	3.4	5.0	6.7	6.3	4.5	3.5	4.0	2.2	.0	1.6	37.2	37.2
10+	0-3	1.0	.8	1.6	1.1	1.3	.5	.8	1.0	.0	2.9	10.9	10.9
	4-10	1.8	5.4	11.1	8.1	5.1	2.9	1.0	1.6	.0	.0	37.5	37.5
	11-21	.0	.3	3.3	3.9	.5	.0	.0	.0	.0	.0	8.0	8.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.7	6.6	15.9	13.7	6.9	3.4	1.8	2.6	.0	2.9	56.4	56.4
TOT OBS													
TOT PCT													
		6.8	11.3	24.1	20.9	12.3	7.9	6.3	4.9	.0	9.1	100.0	312

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	5.9	94.1	17
06009	.0	.0	.0	3.7	7.4	3.7	3.7	.0	.0	.0	18.5	81.5	27
12015	.0	.0	.0	6.3	.0	6.3	.0	.0	.0	.0	12.5	87.5	16
18021	.0	.0	.0	4.5	18.2	4.5	.0	.0	.0	.0	27.3	72.7	22
TOT	0	0	0	3	6	3	1	0	1	0	14	88	82
PCT	.0	.0	.0	3.7	7.3	3.7	1.2	.0	1.2	.0	17.1	82.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	1.7	8.5	3.4	32.2	54.2	59
06009	.0	.0	6.9	.0	35.6	57.4	101
12015	.0	.0	4.2	1.4	43.7	50.7	71
18021	.0	.0	1.7	2.5	46.6	49.2	118
TOT	0	1	17	6	141	349	
PCT	.0	.3	4.9	1.7	40.4	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	6.3	93.8	16
06009	.0	.0	4.3	17.4	78.3	29
12015	.0	.0	7.1	7.1	85.7	14
18021	.0	.0	5.6	27.8	66.7	18
TOT	0	0	3	41	57	71
PCT	.0	.0	4.2	15.5	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	1.6	.5	.0	.0	.0	4	2.1
85/89	.0	.0	.0	.0	4.9	5.3	3.7	.0	30	15.9
80/84	.0	.0	.0	.0	5.8	31.2	35.4	6.3	149	78.8
75/79	.0	.0	.0	.0	.0	.0	1.6	1.6	6	3.2
TOTAL	0	0	0	3	25	69	77	15	189	100.0
PCT	.0	.0	.0	1.6	13.2	36.5	40.7	7.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	1.6	.5	.0	.0	.0	.0	.0	.0
85	1.9	2.4	4.2	1.9	.0	2.1	.3	3.2	.0	.0
80	4.6	6.5	16.7	19.3	11.6	6.3	7.9	2.1	.0	3.7
75	.9	.0	.0	1.1	.5	.0	.0	.1	.0	.5
TOT	7.4	8.9	22.5	22.8	12.2	8.5	8.2	5.4	.0	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	84	82	79	78	78	82.0	107
06009	94	92	88	84	81	79	79	84.5	202
12015	85	84	84	83	79	75	75	82.7	114
18021	87	85	84	82	79	76	75	81.6	220
TOT	94	89	86	83	79	77	75	82.7	643

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.3	50.0	36.8	7.9	80	38		
06009	.0	4.5	28.4	35.8	29.9	1.5	74	67		
12015	.0	.0	6.7	37.8	44.4	11.1	80	49		
18021	.0	.0	4.0	29.3	56.0	10.7	82	75		
TOT	0	3	27	82	96	17	79	225		

OCTOBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

TABLE 17

AREA 0010 SOUTHWEST JAVA SPA
5.5S 108.7E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WN FOG
7/8	.0	.0	1.0	.0	.0	.5	3	.0	1.5
6	.0	.0	.0	.5	.0	.0	1	.0	.5
5	.0	.5	.0	1.0	1.0	.0	5	.0	2.5
4	.0	.0	2.0	1.0	.0	.0	6	.0	3.0
3	.0	.0	1.5	2.0	.0	.0	7	.0	3.5
2	.0	.0	7.1	3.5	.0	.0	21	.0	10.6
1	.0	.5	6.6	1.0	.0	.0	16	.0	8.1
0	.5	.5	18.2	.5	.0	.0	39	.5	19.2
-1	.0	1.5	14.1	2.0	.0	.0	35	1.0	16.7
-2	.0	2.5	14.6	.0	.0	.0	34	.5	16.7
-3	.0	2.0	4.0	.0	.0	.0	12	.0	6.1
-4	.0	2.0	3.5	1.0	.0	.0	13	.0	6.6
-5	.0	.0	.5	.0	.0	.0	1	.0	.5
-6	.0	1.0	.5	.0	.0	.0	3	.0	1.5
-7/-8	.0	.0	1.0	.0	.0	.0	2	.0	1.0
TOTAL	1	21	148	25	1	.5	198	4	194
PCT	.5	10.6	74.7	12.6	1.0	.5	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHT'S (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.1	2.3	.0	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	2.3	.0	.0	.0	.0	5.5	.0	6.3	.0	.0	.0	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.5	.0	.0	.0	.0	5.5	.0	3.9	.0	.0	.0	.0	3.9
1-2	.0	13.3	.0	.0	.0	.0	13.3	3.1	9.4	3.1	.0	.0	.0	15.6
3-4	.0	.0	11.7	.0	.0	.0	11.7	.0	3.1	13.3	.0	.0	.0	16.4
5-6	.0	.0	6.3	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.8	18.0	.0	.0	.0	38.7	3.1	16.4	19.3	.0	.0	.0	39.1

PERIOD: (OVER-ALL) 1963-1972

OCTOBER
TABLE 18 (CONT)AREA 0010 SOUTHWEST JAVA SEA
5.35 108.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	3.9	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	12.1	12.1	.0	.0	.0	.0	24.2	
1-2	3.0	30.3	3.0	.0	.0	.0	36.4	
3-4	.0	1	24.2	.0	.0	.0	30.3	
5-6	.0	.0	6.1	.0	.0	.0	6.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	3.0	.0	.0	.0	3.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	48.5	36.4	.0	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.1	22.4	19.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
6-7	.0	.0	8.9	5.2	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
10-11	.0	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	15.5	5.2	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
TOTAL	16	17	16	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
PCT	27.6	29.3	27.8	10.3	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1897-1971

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FG PCPN	FG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST BLNG SNOW	NO SIG MEA
N	8.2	3.1	2.0	.0	.0	.0	.0	13.3	4.1	9.2	12.2	.0	2.0	.0	63.3
NE	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	12.6	.0	.0	4.6	.0	75.9
E	2.0	2.0	.0	.0	.0	.0	.0	4.0	.0	9.9	2.0	.0	4.0	.0	80.2
SE	8.5	4.8	.0	.0	.0	.0	.0	13.3	4.8	8.5	3.6	.0	1.2	.0	72.1
S	5.3	10.5	.0	.0	.0	.0	.0	15.8	5.3	13.2	.0	.0	.0	.0	68.4
SW	8.4	8.4	.0	.0	.0	.0	.0	16.8	8.4	16.8	4.2	.0	.0	.0	62.1
W	1.7	3.4	3.4	.0	.0	.0	.0	8.4	.0	15.1	.0	.0	3.4	.0	73.1
NW	11.4	.0	1.6	.0	.0	.0	.0	13.8	.0	6.5	.0	.0	9.8	.0	69.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	5.3	.0	.0	5.3	.0	78.9
TOT PCT	6.4	4.3	.9	.0	.0	.0	.0	11.5	2.6	10.6	2.6	.0	3.4	.0	71.5
TOT OBS:	235														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FG PCPN	FG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST BLNG SNOW	NO SIG MEA
00003	11.4	2.3	.0	.0	.0	.0	.0	13.6	.0	4.5	2.3	.0	.0	.0	81.8
06009	2.7	6.8	1.4	.0	.0	.0	.0	11.0	2.7	.0	2.7	.0	6.8	.0	76.7
12015	3.3	1.7	.0	.0	.0	.0	.0	5.0	1.7	20.0	1.7	.0	1.7	.0	73.3
18021	11.4	5.1	1.3	.0	.0	.0	.0	17.7	3.8	17.7	3.8	.0	2.5	.0	59.5
TOT PCT	7.0	4.3	.8	.0	.0	.0	.0	12.1	2.3	10.9	2.7	.0	3.1	.0	71.5
TOT OBS:	256														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.9	5.5	.2	.0	.0	.0	7.6	5.5	4.0	.0	8.1	12.8	13.3	6.3	5.3	2.1		
NE	1.4	5.3	.7	.2	.0	.0	7.5	6.9	2.8	.0	6.8	18.6	11.9	.0	2.3	5.2		
E	2.2	8.9	1.1	.0	.0	.0	12.2	6.4	11.9	8.3	10.6	12.2	11.3	6.3	12.5	16.1		
SE	3.5	11.9	2.2	.0	.0	.0	17.5	6.4	23.3	41.7	19.6	7.0	14.9	37.5	15.7	19.3		
S	2.1	8.0	1.4	.0	.0	.0	11.5	6.6	15.3	8.3	11.3	7.4	5.4	12.5	13.4	16.7		
SW	3.7	7.5	1.0	.0	.0	.0	12.3	6.0	19.3	8.3	13.3	5.8	8.6	15.6	14.8	11.5		
W	3.1	8.1	2.7	.2	.0	.0	14.1	7.4	10.8	33.3	11.7	9.9	15.5	12.5	14.8	20.3		
NW	1.9	6.1	.6	.0	.0	.0	8.6	6.0	2.3	.0	11.5	12.2	10.1	9.4	10.0	4.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.8						8.8	.0	10.2	.0	7.2	14.0	9.0	.0	11.1	4.2		
TOT OBS	177	381	62	2	0	0	622		88	6	111	86	111	16	108	96		
TOT PCT	28.5	61.3	10.0	.3	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.5	2.0	.1	.0	.0			7.6	5.5	3.7	10.2	12.4	3.8
NE	4.1	3.1	.2	.0	.0			7.5	6.9	2.7	11.9	10.4	3.7
E	7.1	5.1	.0	.0	.0			12.2	6.4	11.7	11.3	10.6	14.2
SE	11.5	5.5	.0	.0	.0			17.5	6.4	24.5	14.1	17.7	17.6
S	7.1	4.0	.4	.0	.0			11.5	6.6	14.9	9.6	6.3	15.0
SW	7.4	4.8	.1	.0	.0			12.3	6.0	18.6	14.0	9.4	13.2
W	7.0	6.7	.4	.0	.0			14.1	7.4	12.2	10.9	15.2	17.4
NW	5.1	3.4	.0	.0	.0			8.6	6.0	2.1	11.8	10.0	7.5
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	8.8							8.8	.0	9.6	10.2	7.9	7.8
TOT OBS	396	215	11	0	0	622		3.9	94	197	127	204	
TOT PCT	63.7	34.6	1.8	.0	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

NOVEMBER

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	9.6	23.4	59.6	6.4	1.1	.0	.0	5.6	100.0	94
06009	10.2	20.8	59.9	9.1	.0	.0	.0	5.8	100.0	197
12015	7.9	22.8	60.6	8.7	.0	.0	.0	5.6	100.0	127
18021	7.8	14.7	63.7	13.2	.5	.0	.0	6.3	100.0	204
TOT	95	122	381	62	2	0	0	5.9		622
PCT	8.8	19.6	61.3	10.0	.3	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN CLOUD COVER
N	1.5	1.5	2.9	5.1		6.7
NE	.0	.0	4.4	3.4		7.0
E	.0	1.5	5.5	.0		5.1
SE	4.4	2.9	3.3	2.9		4.3
S	2.9	2.9	2.9	1.5		4.1
SW	.0	.0	9.9	2.9		6.6
W	1.5	2.6	5.3	9.9		6.1
NW	1.5	1.8	2.9	2.2		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.5	5.9	.0		5.1
TOT OBS	9	10	30	19	68	5.6
TOT PCT	13.2	14.7	44.1	27.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	8.5
NE	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
E	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	4.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6
S	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	8.8
SW	.0	.0	.0	3.3	1.5	1.5	.0	.0	.0	.0	.0	6.6
W	.0	.0	.0	1.1	5.9	4.0	.0	.0	.0	.0	.0	9.2
NW	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	7.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	7.4
TOT OBS	1	0	0	5	8	4	1	0	0	0	0	49
TOT PCT	1.5	.0	.0	7.4	11.8	5.9	1.5	.0	.0	.0	72.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= NR >10	= OR >5	= OR >2	VSBY (NM) = NR >1	= OR >1/2	= OR >1/4	= OR >50VD	= OR >0
= NR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= NR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= NR >3500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
= OR >1000	15.3	15.3	19.4	19.4	19.4	19.4	19.4	19.4
= OR >600	18.1	20.8	26.4	26.4	26.4	26.4	26.4	26.4
= OR >300	18.1	20.8	26.4	26.4	26.4	26.4	26.4	26.4
= OR >150	18.1	20.8	26.4	26.4	26.4	26.4	26.4	26.4
= OR >0	18.1	20.8	27.8	27.8	27.8	27.8	27.8	27.8
TOTAL	13	15	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 72

PCT FREQ NM <5/8: 72.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	6.0	17.0	22.0	16.0	12.0	8.0	8.0	3.0	8.0	.0	100

NOVEMBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1897-1971

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.78

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.4	.9	.2	.0	.0	.4	1.3	.0	.4	3.8	3.8
	TOT %	.2	.4	.9	.2	.0	.0	.4	1.3	.0	.4	3.8	3.8
2<5	PCP	.4	.4	.0	.0	.0	.0	.6	.2	.0	.0	1.7	1.7
	NO PCP	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	1.7	1.7
	TOT %	.4	.4	.0	.9	.0	.0	1.5	.2	.0	.0	3.4	3.4
5<10	PCP	1.0	.0	.2	1.9	1.3	1.3	.4	1.2	.0	.9	8.1	8.1
	NO PCP	4.0	4.3	3.4	7.2	1.5	3.2	4.0	5.1	.0	3.4	36.2	36.2
	TOT %	5.0	4.3	3.6	9.1	2.8	4.5	4.5	6.3	.0	4.3	44.3	44.3
10+	PCP	.0	.2	.2	.4	.0	.4	.0	.4	.0	.0	1.7	1.7
	NO PCP	4.8	3.9	6.1	6.9	5.3	5.2	6.3	4.9	.0	3.4	46.8	46.8
	TOT %	4.8	4.1	6.3	7.3	5.3	5.6	6.3	5.3	.0	3.4	48.5	48.5
TOT OBS													
TOT PCT													
		10.4	9.3	10.7	17.6	8.1	10.1	12.7	13.1	.0	8.1	100.0	235

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3
	4-10	.0	.2	.6	.2	.0	.0	.0	.6	.0	.0	1.6	1.6
	11-21	.2	.2	.0	.0	.0	.0	.3	.3	.0	.0	1.0	1.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.3	.6	.2	.0	.0	.3	1.0	.0	.3	2.9	2.9
2<5	0-3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.6
	4-10	.3	.3	.0	.0	.0	.0	.3	.3	.0	.0	1.3	1.3
	11-21	.0	.0	.0	.0	.0	.0	1.1	.2	.0	.0	1.3	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.3	.0	.6	.0	.0	1.4	.5	.0	.0	3.2	3.2
5<10	0-3	1.4	.3	.5	1.3	.8	.6	.3	.2	.0	3.2	8.6	8.6
	4-10	2.5	1.9	1.9	5.3	1.6	2.9	2.7	4.2	.0	.0	23.0	23.0
	11-21	.0	.8	.5	.5	.2	.0	1.3	.3	.0	.0	3.5	3.5
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	3.9	3.4	2.9	7.0	2.6	3.5	4.3	4.7	.0	3.2	35.5	35.5
10+	0-3	1.0	1.3	.6	.6	1.1	2.2	1.1	1.9	.0	5.4	15.3	15.3
	4-10	4.2	2.6	6.8	6.3	4.6	5.4	4.6	3.5	.0	.0	38.0	38.0
	11-21	.0	.5	1.1	1.0	1.1	.2	.8	.2	.0	.0	4.8	4.8
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.3
	TOT %	5.2	4.4	8.5	7.9	6.9	7.7	6.8	5.6	.0	5.4	58.5	58.5
TOT OBS													
TOT PCT													
		9.6	8.4	12.1	15.7	9.4	11.3	12.9	11.7	.0	8.9	100.0	313

NOVEMBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.0	.0	5.0	.0	.0	.0	.0	10.0	90.0	20
06009	.0	.0	.0	3.4	13.8	6.9	3.4	.0	.0	.0	27.6	72.4	29
12015	.0	.0	.0	3.8	15.4	3.8	3.8	.0	.0	.0	26.9	73.1	26
18021	5.3	.0	.0	10.5	5.3	.0	.0	.0	.0	.0	21.1	78.9	19
TOT	1	0	0	5	9	4	2	0	0	0	21	79	94
PCT	1.1	.0	.0	5.3	9.6	4.3	2.1	.0	.0	.0	22.3	77.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	5.0	48.3	46.7	60
06009	.0	.0	5.1	2.0	29.3	63.6	99
12015	.0	.0	1.4	2.8	32.4	63.4	71
18021	.0	.0	2.9	2.9	43.3	51.0	104
TOT	0	0	9	10	126	189	334
PCT	.0	.0	2.7	3.0	37.7	56.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	14.3	7.1	78.6	14
06009	.0	.0	11.8	35.3	52.9	17
12015	.0	0	12.5	12.5	75.0	24
18021	5.9	5.9	17.6	5.9	76.5	17
TOT	1	1	10	11	91	72
PCT	1.4	1.4	13.9	15.3	70.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	2.4	7.3	3.0	.6	22	13.4
80/84	.0	.0	.0	.0	3.0	21.1	37.8	5.5	127	77.4
75/79	.0	.0	.0	.0	.0	.6	3.0	4.9	14	8.5
TOTAL	0	0	0	0	10	64	72	18	164	100.0
PCT	.0	.0	.0	.0	6.1	39.0	43.9	11.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
85	2.7	1.8	.6	1.5	.6	.2	1.4	4.0	.0	.6
80	8.7	4.7	7.2	10.2	5.8	9.8	11.4	11.7	.0	7.9
75	1.1	.0	.6	1.5	1.5	.3	.9	.8	.0	1.8
TOTAL	12.5	6.6	8.4	13.9	7.9	10.2	13.7	16.5	.0	10.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	86	82	77	73	73	81.9	94
06009	92	90	88	84	79	77	76	83.6	203
12015	88	85	85	82	79	79	78	82.5	128
18021	88	85	84	82	77	75	75	81.3	214
TOT	92	89	86	82	79	76	73	82.4	639

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.0	27.3	57.6	12.1	82	33
06009	.0	.0	14.8	51.9	31.5	1.9	76	54
12015	.0	.0	.0	45.7	40.0	14.3	81	35
18021	.0	.0	1.7	28.3	48.3	21.7	83	60
TOT	0	0	15	70	79	23	80	182

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

NOVEMBER

AREA 0010 SOUTHWEST JAVA SEA
5.35 108.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.5	1	.0	.5
3	.0	.0	.0	2.5	.0	5	1.0	1.5
2	.0	.0	3.5	2.5	.0	12	.5	3.4
1	.0	.0	5.0	1.5	.0	13	.0	6.4
0	.0	1.0	14.4	2.5	.0	36	.5	17.3
-1	.0	1.0	17.3	1.0	.0	39	1.0	18.3
-2	.0	2.5	19.8	1.0	.0	47	.0	23.3
-3	.0	1.5	6.4	.5	.0	17	.0	8.4
-4	.0	4.0	1.5	.5	.0	17	.0	8.4
-5	.0	2.5	1.0	.0	.0	7	.0	3.5
-6	.5	1.5	.0	.0	.0	4	.0	2.0
-7/-8	.5	1.0	.0	.0	.0	3	.0	1.5
-9/-10	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	3	30	145	23	1	202	3.0	97.0
PCT	1.5	14.9	71.8	11.4	.5	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	13.6	.0	.0	.0	.0	13.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.6	.0	.0	.0	.0	13.6	.0	.0	.0	4.5	.0	.0	4.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	9.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	4.5	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	.0	.0	.0	.0	4.5	13.6	4.5	4.5	.0	.0	.0	22.7

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.72

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	4.5	4.5	4.5	.0	.0	.0	13.6	9.1	5.7	.0	.0	.0	.0	14.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.5	4.5	4.5	.0	.0	.0	13.6	9.1	5.7	.0	.0	.0	.0	14.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	4.5	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.0	4.5	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	86.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	21.7	4.3	.0	.0	.0	.0	26.1	.0
1-2	17.4	30.4	4.3	.0	.0	.0	52.2	.0
3-4	4.3	4.3	4.3	.0	.0	.0	17.4	.0
5-6	.0	.0	4.3	.0	.0	.0	4.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	43.5	39.1	13.0	4.3	.0	.0	100.0	23

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	21.7	23.3	21.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
6-7	.0	5.0	1.7	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
8-9	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	20.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	25	18	14	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
PCT	41.7	30.0	23.3	1.7	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1855-1971AREA 0010 SOUTHWEST JAVA SEA
5.4S 108.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	12.1	.0	.0	.0	.0	.0	.0	12.1	.0	12.1	12.1	.0	.0	.0	63.6
NE	23.5	.0	.0	.0	.0	.0	.0	23.5	.0	.0	11.8	.0	.0	.0	64.7
E	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	85.7
SE	16.0	4.0	.0	.0	.0	.0	.0	20.0	.0	12.0	8.0	.0	.0	.0	72.0
S	30.0	13.3	.0	.0	.0	.0	.0	43.3	.0	20.0	.0	.0	.0	.0	50.0
SW	12.4	15.7	2.2	.0	.0	.0	.0	30.3	.0	15.7	.0	.0	.0	.0	60.7
W	5.1	7.1	2.0	.0	.0	.0	.0	14.1	4.7	9.8	.0	.0	.0	.0	71.4
NW	8.2	5.8	.6	.0	.0	.0	.0	14.6	.0	13.5	.0	.0	.0	.0	74.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	75.0
TOT PCT	10.1	6.9	1.1	.0	.0	.0	.0	18.1	2.1	12.2	1.6	.0	.0	.0	69.1
TOT OBS:	188														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	12.2	9.8	2.4	.0	.0	.0	.0	24.4	4.9	2.4	.0	.0	.0	.0	70.7
06009	10.0	1.7	1.7	.0	.0	.0	.0	13.3	1.7	3.3	.0	.0	.0	.0	80.0
12015	8.7	2.2	.0	.0	.0	.0	.0	10.9	.0	23.9	.0	.0	.0	.0	69.8
18021	15.3	11.9	.0	.0	.0	.0	.0	27.1	1.7	18.6	1.7	.0	.0	.0	57.6
TOT PCT	11.7	6.3	1.0	.0	.0	.0	.0	18.9	1.9	11.7	1.5	.0	.0	.0	69.4
TOT OBS:	206														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	.5	4.0	.7	.0	.0	.0		5.2	7.4	.1	.0	4.6	9.8	10.4	.0	4.4	1.8
NE	1.0	3.2	.2	.0	.0	.0		4.4	1.3	3.1	.0	4.6	6.6	5.0	.0	5.2	2.5
E	1.8	2.0	.0	.0	.0	.0		3.8	9	10.0	.0	4.2	1.6	2.0	.0	2.1	5.1
SE	1.1	3.3	.7	.0	.0	.0		5.1		8.5	.0	4.6	.0	2.0	21.4	6.3	8.9
S	1.5	4.6	.7	.0	.0	.0		6.7		10.0	.0	3.2	3.3	4.5	21.4	10.4	9.5
SW	1.7	9.2	2.9	.3	.0	.0		14.0	8.2	17.7	11.1	14.1	6.6	7.4	28.6	17.7	19.6
W	2.5	19.4	8.1	1.4	.7	.0		32.1	10.0	30.4	6.1	38.9	29.5	28.2	28.6	30.7	29.7
NW	.6	11.3	8.6	.8	.0	.0		21.2	10.5	11.9	27.2	16.4	36.1	34.7	.0	14.8	15.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0	7.7	.0	9.3	6.6	5.9	.0	8.3	7.6
TOT OBS	95	300	114	13	4	0	526		8.1	65	9	108	61	101	7	96	79
TOT PCT	14.1	57.0	21.7	2.5	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.4	2.7	.1	.0	.0	5.2	7.4	.7	6.5	9.7	3.0		
NE	3.6	.8	.0	.0	.0	4.4	5.3	2.7	5.3	4.6	4.0		
E	3.4	.4	.0	.0	.0	3.8	3.9	8.8	3.3	1.9	3.4		
SE	3.2	1.6	.3	.0	.0	5.1	6.5	7.4	3.0	3.2	7.4		
S	4.6	2.0	.2	.0	.0	6.7	6.1	8.8	3.3	5.6	10.0		
SW	6.0	7.1	.8	.1	.0	14.0	8.2	16.9	11.4	8.8	18.6		
W	12.9	13.8	4.2	1.2	.0	32.1	10.0	34.1	35.5	28.2	30.3		
NW	6.2	11.8	3.0	.2	.0	21.2	10.5	13.9	23.5	32.4	13.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	7.4					7.4	.0	6.8	8.3	5.6	8.0		
TOT OBS	262	211	45	8	0	526		8.1	74	169	108	175	
TOT PCT	49.8	40.1	8.6	1.5	.0		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1859-1971

AREA 0010 SOUTHWEST JAVA SEA
9.45 108.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.8	12.2	63.5	17.6	.0	.0	.0	7.1	100.0	74
06009	8.3	13.2	56.2	15.4	5.9	1.2	.0	8.1	100.0	169
12015	5.6	6.5	56.5	29.6	.9	.9	.0	8.9	100.0	108
18021	8.0	9.7	55.4	24.6	1.7	.6	.0	8.1	100.0	175
TOT	39	36	300	114	13	4	0	8.1		926
PCT	7.4	10.6	57.0	21.7	2.5	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	3.4		8.0
NE	.0	.0	3.9	2.0		7.3
E	3.9	2.0	3.9	2.0		4.1
SE	.0	2.0	2.0	.0		5.0
S	.0	2.0	.0	2.0		6.0
SW	2.0	.0	3.9	.5		5.2
W	3.9	2.9	16.2	14.7		6.2
NW	2.0	8.8	1.5	6.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	.0	3.9	.0	3.9		6.0
TOT OBS	6	11	16	18	51	5.7
TOT PCT	11.8	21.6	31.4	35.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	2.0	
.0	.0	2.0	.0	.0	2.0	.0	.0	.0	.0	7.8	
.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	
.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	4.4	
.0	1.5	.0	2.9	3.9	1.0	.0	.0	.0	.0	28.4	
.0	.5	.0	2.9	.0	1.0	.0	.0	.0	.0	14.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	
0	1	2	7	2	2	0	1	0	0	36	51
.0	2.0	3.9	13.7	3.9	3.9	.0	2.0	.0	.0	70.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF S1-ULTANEUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
# OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
# OR >5000	.0	.0	.0	1.9	1.9	1.9	1.9	1.9
# OR >3500	.0	.0	.0	1.9	1.9	1.9	1.9	1.9
# OR >2000	5.8	5.8	5.8	7.7	7.7	7.7	7.7	7.7
# OR >1000	9.6	9.6	9.6	11.5	11.5	11.5	11.5	11.5
# OR >600	21.2	23.1	23.1	25.0	25.0	25.0	25.0	25.0
# OR >300	23.1	26.9	26.9	28.8	28.8	28.8	28.8	28.8
# OR >150	23.1	28.8	28.8	30.8	30.8	30.8	30.8	30.8
# OR >0	23.1	28.8	28.8	30.8	30.8	30.8	30.8	30.8
TOTAL	12	15	15	16	16	16	16	16

TOTAL NUMBER OF OBS: 52

PCT FREQ NH <5/8: 69.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
3.2	15.9	15.9	22.2	14.3	7.9	6.3	6.3	7.9	.0	63

PERIOD: (PRIMARY) 1970-1971
(OVER-ALL) 1970-1971

DECEMBER

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	1.1	.0	.3	.3	.0	.0	.0	1.6	
	TOT %	.0	.0	.0	1.1	.0	.3	.3	.0	.0	.0	1.6	
2<5	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.3	.3	.5	.0	.0	.0	.0	1.1	
5<10	PCP	.5	.5	.0	.3	1.9	2.1	3.3	2.5	.0	.0	11.2	
	NO PCP	1.9	1.9	.3	2.4	1.3	3.7	11.7	8.8	.0	2.1	34.0	
	TOT %	2.4	2.4	.3	2.7	3.2	5.9	15.0	11.3	.0	2.1	45.2	
10+	PCP	.0	.5	.0	.5	1.1	1.5	1.5	.8	.0	.0	5.9	
	NO PCP	2.0	1.1	3.5	1.9	3.2	3.7	17.2	10.6	.0	2.1	45.2	
	TOT %	2.0	1.6	3.5	2.4	4.3	5.2	18.6	11.4	.0	2.1	51.1	
TOT OBS													188
TOT PCT		4.4	4.5	3.7	6.6	8.0	11.8	33.9	22.7	.0	4.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	WIND KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.4	.0	.2	.6	.0	.0	.0	1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.8	.0	.2	.6	.0	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.8	.2	1.0	.0	.0	2.1	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.2	.8	.2	1.0	.0	.0	2.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	
	4-10	1.9	1.9	.2	1.7	2.5	4.4	7.2	3.6	.0	.0	23.3	
	11-21	.0	.0	.0	.4	.0	1.0	4.8	5.0	.0	.0	11.3	
	22+	.0	.0	.0	.0	.0	.0	.2	.6	.0	.0	.8	
	TOT %	1.9	1.9	.2	2.1	2.5	5.4	12.2	9.3	.0	1.7	37.1	
10+	0-3	.0	.4	.6	.6	1.3	1.0	.8	.2	.0	4.6	9.6	
	4-10	1.6	1.0	2.3	1.0	3.1	4.9	13.4	8.4	.0	.0	35.8	
	11-21	.4	.4	.0	.6	.2	1.0	3.3	5.2	.0	.0	11.3	
	22+	.0	.0	.0	.0	.0	.0	1.1	.1	.0	.0	1.3	
	TOT %	2.0	1.9	2.9	2.3	4.6	7.0	18.8	14.0	.0	4.6	57.9	
TOT OBS													240
TOT PCT		3.9	4.2	3.1	5.6	7.5	13.4	31.8	24.3	.0	6.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1855-1971

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.72

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

JUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	6.7	6.7	.0	6.7	.0	.0	.0	.0	20.0	80.0	15
06009	.0	4.8	.0	14.3	9.5	4.8	.0	4.8	.0	.0	38.1	61.9	21
12015	.0	.0	7.1	7.1	.0	7.1	.0	.0	.0	.0	21.4	78.6	14
18021	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	18.2	81.8	11
TOT	0	1	2	7	2	3	0	1	0	0	16	45	61
PCT	.0	1.6	3.3	11.5	3.3	4.9	.0	1.6	.0	.0	26.2	73.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.0	2.2	.0	2.2	45.7	50.0	46
06009	1.4	.0	2.7	2.7	31.5	61.6	73
12015	.0	.0	1.7	1.7	36.7	60.0	60
18021	.0	.0	1.3	2.3	48.1	48.1	79
TOT	1	1	4	6	104	147	258
PCT	.4	.4	1.6	2.3	40.3	55.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	8.3	16.7	8.3	75.0	12
06009	.0	5.9	29.4	17.6	52.9	17
12015	.0	8.3	16.7	8.3	75.0	12
18021	.0	.0	18.2	.0	81.8	11
TOT	0	3	11	5	36	52
PCT	.0	5.8	21.2	9.6	69.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.8	3.1	7.0	.8	.0	15	11.7
80/84	.0	.0	.0	.0	1.6	21.1	48.4	3.9	96	75.0
75/79	.0	.0	.0	.0	.0	.8	7.8	4.7	17	13.3
TOTAL	0	0	0	1	6	37	73	11	128	100.0
PCT	.0	.0	.0	.8	4.7	28.9	57.0	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.2	.8	.8	.0	.8	1.6	4.3	2.3	.0	.0
4.1	3.9	2.7	6.3	5.1	9.2	21.3	17.8	.0	4.7
1.2	1.2	.0	1.2	2.7	1.2	4.1	1.8	.0	.0
6.4	5.9	3.5	7.4	8.6	11.9	29.7	21.9	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	85	81	78	76	76	81.4	81
06009	91	90	88	83	79	78	77	83.5	166
12015	87	85	85	82	79	77	77	81.8	109
18021	85	84	84	81	78	74	74	81.1	180
TOT	91	90	85	82	78	76	74	82.0	536

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	28.0	48.0	24.0	85	25		
06009	.0	4.8	9.5	42.9	35.7	7.1	78	42		
12015	.0	.0	3.1	31.3	59.4	6.3	82	32		
18021	.0	.0	2.2	13.3	71.1	13.3	84	45		
TOT	0	2	6	41	78	17	82	144		

PERIOD: (PRIMARY) 1909-1971
(OVER-ALL) 1955-1971

DECEMBER

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.7E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.6	.6	2	.0	1.2
7/8	.0	.0	.0	.6	.6	1	.0	.6
5	.0	.0	.0	.6	.6	2	.0	1.2
4	.0	.0	.6	.0	.0	1	.0	.6
3	.0	.0	1.2	.6	.0	3	.0	1.9
2	.0	.0	7.4	1.9	.0	15	.0	9.3
1	.0	1.2	5.6	3.1	.0	16	.6	9.3
0	.0	1.2	10.5	1.9	.0	22	.0	13.6
-1	.0	1.2	16.7	.6	.0	30	.0	18.5
-2	.0	4.9	9.9	.0	.0	24	.0	14.8
-3	.0	1.9	4.9	.6	.0	12	.0	7.4
-4	.0	9.3	1.9	.0	.0	18	.0	11.1
-5	.0	4.3	1.9	.0	.0	10	.0	6.2
-6	.0	3.1	.0	.0	.0	5	.0	3.1
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	1	44	98	17	2	162	1	161
PCT	.6	27.2	60.5	10.5	1.2	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	5.0
1-2	.0	3.8	.0	.0	.0	.0	3.8	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	5.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	.0	.0	.0	.0	3.8	.0	10.0	5.0	.0	.0	.0	15.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

AREA 0010 SOUTHWEST JAVA SEA
5.45 108.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	5.0	.0	.0	.0	5.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	.0	.0	.0	.0	5.0	.0	6.3	5.0	.0	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	10.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.5	.0	.0	.0	.0	12.5	.0	7.5	.0	.0	.0	.0	7.5	.0
3-4	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	1.3	.0	.0	.0	1.3	.0
5-6	.0	.0	8.8	.0	.0	.0	8.8	.0	.0	1.3	.0	.0	.0	1.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	5.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	8.8	.0	8.8	.0	.0	.0	.0	1.3	.0	1.3	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	22.5	17.5	.0	8.8	.0	48.8	.0	7.5	2.5	.0	1.3	.0	11.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	15.0	.0	.0	.0	.0	15.0	15.0
1-2	.0	40.0	.0	.0	.0	.0	40.0	40.0
3-4	.0	5.0	10.0	.0	.0	.0	15.0	15.0
5-6	.0	.0	10.0	.0	.0	.0	10.0	10.0
7	.0	.0	5.0	.0	.0	.0	5.0	5.0
8-9	.0	.0	5.0	.0	.0	.0	5.0	5.0
10-11	.0	.0	.0	.0	10.0	.0	10.0	10.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	60.0	30.0	.0	10.0	.0	100.0	20

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.5	27.5	17.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	2
6-7	.0	9.0	2.5	2.5	5.0	5.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
TOTAL	8	14	8	3	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	40	3
PCT	20.0	35.0	20.0	7.5	5.0	5.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

ANNUAL

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.6	3.2	.2	.0	.0	.0	.0	8.0	.7	4.8	3.0	.0	4.7	.0	79.6
NE	5.1	1.2	1.3	.0	.0	.0	.0	7.7	.3	5.3	5.5	.0	2.5	.0	78.9
E	3.0	3.2	.4	.0	.0	.0	.0	6.7	1.6	4.2	3.6	.0	2.4	.0	81.9
SE	6.7	3.8	.2	.0	.0	.0	.0	10.7	.9	6.3	1.9	.0	.6	.0	82.4
S	6.5	5.6	.4	.0	.0	.0	.0	12.3	.4	6.3	2.1	.0	1.2	.0	80.5
SW	7.3	6.0	.8	.0	.0	.0	.0	14.2	2.8	6.1	3.7	.0	4.0	.0	72.0
W	8.3	4.3	1.6	.0	.0	.0	.0	14.3	.6	12.2	1.3	.0	3.0	.0	74.1
NW	8.3	2.5	1.4	.0	.0	.0	.0	11.2	.1	8.0	1.6	.0	3.1	.0	77.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	.9	2.4	.0	.0	.0	.0	5.2	.0	5.1	.5	.0	2.0	.0	87.3
TOT PCT	5.1	4.3	.7	.0	.0	.0	.0	10.0	.9	5.9	2.5	.0	2.2	.0	80.0
TOT OBS:	3078														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.3	4.1	.9	.0	.0	.0	.0	11.3	1.1	1.9	1.4	.0	2.0	.0	83.2
06009	4.0	4.0	1.1	.0	.0	.0	.0	9.0	.5	.3	2.8	.0	3.7	.0	83.8
12015	4.1	2.0	.2	.0	.0	.0	.0	6.2	.8	8.5	1.9	.0	2.1	.0	81.8
18021	8.0	6.0	.5	.0	.0	.0	.0	14.5	.9	11.6	3.7	.0	1.7	.0	71.6
TOT PCT	5.7	4.2	.7	.0	.0	.0	.0	10.6	.9	6.0	2.6	.0	2.4	.0	79.3
TOT OBS:	3312														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	3.2	.4	.1	.0	.0		5.1	6.1	2.2	2.9	3.7	10.6	8.4	4.0	4.5	1.9	
NE	1.5	5.6	1.0	.0	.0	.0		8.1	6.4	3.5	7.0	5.0	14.8	14.8	8.2	7.8	3.9	
E	2.3	12.6	4.0	.1	.0	.0		19.0	7.0	14.7	16.2	20.1	22.0	21.4	20.9	20.7	15.4	
SE	2.7	12.4	4.1	.1	.0	.0		19.4	7.0	28.3	27.3	24.2	10.4	11.2	15.5	16.8	23.7	
S	1.6	5.9	1.1	.0	.0	.0		8.7	6.5	13.7	10.2	6.7	2.9	4.6	10.4	9.3	14.4	
SW	1.6	5.0	1.0	.0	.0	.0		7.6	6.8	9.9	5.2	7.0	2.9	5.0	12.7	8.9	11.2	
W	2.1	7.8	3.7	.4	.1	.0		14.0	7.5	14.4	16.9	14.7	11.8	12.3	15.5	13.9	16.5	
NW	1.5	6.9	3.3	.4	.0	.0		12.2	7.3	7.9	14.2	12.1	19.8	16.4	10.4	10.3	7.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.9							5.9	.0	5.3	.0	6.6	4.8	5.9	2.4	7.8	5.4	
TOT OBS							8367		7.4	1171	125	1551	1099	1406	186	1470	1339	
TOT PCT	20.6	59.4	18.7	1.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.3	1.6	.1	.0	.0		5.1	6.1	2.4	6.6	8.0	3.3
NE	4.5	3.4	.1	.0	.0		8.1	6.4	3.9	9.0	14.0	5.9
E	8.1	10.1	.8	.0	.0		19.0	7.0	14.8	20.8	21.3	18.1
SE	5.0	3.5	.2	.0	.0		19.4	7.0	28.2	18.7	11.6	20.1
S	4.4	3.0	.3	.0	.0		8.7	6.5	13.4	5.2	5.2	11.0
SW	5.9	6.5	1.4	.2	.0		7.6	6.8	9.5	5.3	5.8	10.0
W	5.1	5.7	1.4	.1	.0		14.0	7.5	14.5	13.4	12.8	15.1
NW	5.1	5.7	1.4	.1	.0		12.2	7.3	8.6	15.3	15.8	8.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.9						5.9	.0	4.8	5.8	5.5	6.7
TOT OBS						8367		7.4	1298	2650	1592	2829
TOT PCT	50.7	43.7	5.3	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

ANNUAL

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.78

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	4.8	14.2	59.0	21.1	.9	.2	.0	7.6	100.0	1296
0600	5.8	15.2	57.7	19.8	1.4	.1	.0	7.6	100.0	2650
1200	5.5	14.3	61.7	17.2	1.1	.1	.0	7.2	100.0	1892
1800	6.7	14.7	59.8	17.6	1.1	.0	.0	7.2	100.0	2829
TOT								7.4		8967
PCT	5.9	14.7	59.4	18.7	1.2	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.7	.8	1.0	1.2		4.6
NE	1.7	1.0	2.0	1.3		4.2
E	6.6	7.7	6.3	1.6		3.7
SE	6.2	8.4	6.7	1.7		3.6
S	1.3	1.9	1.6	.7		4.5
SW	1.2	.7	2.3	1.7		4.5
W	1.1	2.3	5.8	5.5		5.0
NW	1.2	2.3	5.6	3.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.6	1.3	2.8	.7		3.9
TOT OBS					853	4.7
TOT PCT	21.6	26.5	34.1	17.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.6	.3	.1	.0	.0	.0	.0	2.7	
NE	.1	.0	.1	.7	.3	.3	.1	.0	.0	.0	4.3	
E	.0	.0	.3	.5	1.7	.8	.4	.0	.0	.0	18.3	
SE	.0	.0	.1	.8	1.2	.5	.2	.2	.0	.1	19.8	
S	.0	.0	.2	.0	.8	.2	.0	.0	.1	.0	4.2	
SW	.0	.0	.1	1.0	.8	.3	.0	.0	.0	.0	3.6	
W	.0	.1	.2	1.9	2.2	1.7	.1	.0	.0	.2	8.6	
NW	.0	.0	.1	.9	1.3	1.6	.3	.1	.0	.0	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.5	.5	.3	.2	.0	.0	.0	4.9	
TOT OBS											853	
TOT PCT	.1	.2	1.2	7.0	9.3	5.3	1.4	.3	.1	.5	74.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0				
>6500	.7	.7	.7	.7	.7	.7	.7	.7				
>5000	.8	.8	.8	1.0	1.0	1.0	1.0	1.0				
>3500	2.3	2.5	2.5	2.6	2.6	2.6	2.6	2.6				
>2000	6.6	7.5	7.8	7.9	7.9	7.9	7.9	7.9				
>1000	13.5	15.9	16.9	17.0	17.0	17.0	17.0	17.0				
>600	18.5	22.3	23.7	23.9	23.9	23.9	23.9	23.9				
>300	19.1	23.2	24.7	24.9	24.9	25.1	25.1	25.1				
>150	19.1	23.3	24.9	25.0	25.0	25.3	25.3	25.3				
>0	19.1	23.3	25.0	25.2	25.2	25.4	25.4	25.4				

TOTAL NUMBER OF OBS: 853

PCT FREQ NH <5/8: 74.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.9	16.1	20.9	17.0	12.0	7.1	4.8	5.9	7.2	.0	982

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973AREA 0010 SOUTHWEST JAVA SEA
5.95 108.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	.0	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	.0	.0	.0	.1	.1	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.0	*	.1	.1	*	*	.1	*	.0	.0	.4	
	TOT %	.0	*	.1	.1	.1	*	.1	.1	.0	.0	.5	
1<2	PCP	.0	.0	.1	.0	.0	*	.1	*	.0	.0	.3	
	NO PCP	.1	.2	.4	.2	.1	.2	.2	.2	.0	.1	1.8	
	TOT %	.1	.2	.5	.2	.1	.3	.4	.2	.0	.1	2.1	
2<5	PCP	.1	*	.1	.1	.1	.1	.3	.2	.0	.0	.9	
	NO PCP	*	.1	.3	.3	.1	.1	.3	.2	.0	.1	1.5	
	TOT %	.1	.2	.4	.4	.2	.2	.5	.4	.0	.1	2.4	
5<10	PCP	.1	.2	.5	1.1	.7	.8	1.4	1.2	.0	.2	6.5	
	NO PCP	2.7	3.2	6.0	6.8	2.8	2.9	5.0	4.7	.0	1.4	35.4	
	TOT %	2.8	3.4	6.5	7.9	3.5	3.7	6.4	5.9	.0	1.6	42.0	
10+	PCP	.1	.2	.1	.3	.2	.3	.6	.2	.0	.0	2.0	
	NO PCP	2.7	4.1	11.3	10.6	3.8	2.8	6.8	6.7	.0	2.0	50.7	
	TOT %	2.8	4.3	11.4	10.8	4.0	3.1	7.4	6.9	.0	2.0	52.7	
TOT OBS													3079
TOT PCT		6.1	8.2	19.0	19.4	7.9	7.3	14.8	13.6	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	.1	.0	.0	*	.1	.0	.0	.3	
	11-21	*	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.1	.1	.0	.0	.1	.1	.0	.0	.4	
1/2<1	0-3	.0	*	.0	*	*	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.1	.1	.0	*	*	*	.0	.0	.3	
	11-21	.0	.0	*	.1	*	*	.1	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.1	.1	*	.1	.1	.0	.0	.5	
1<2	0-3	.0	*	.0	*	.0	*	*	.0	.0	.1	.2	
	4-10	.1	.1	.3	.1	.1	.1	.1	.1	.0	.0	1.1	
	11-21	*	*	.1	*	*	.1	.2	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.1	.2	.3	.1	.1	.2	.4	.2	.0	.1	1.7	
2<5	0-3	*	*	*	.2	.1	*	*	*	.0	.1	.5	
	4-10	*	.1	.3	.3	.1	.2	.2	.3	.0	.0	1.8	
	11-21	*	*	.1	*	.1	*	.2	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.1	.4	.5	.2	.2	.5	.5	.0	.1	2.6	
5<10	0-3	.7	.2	.3	.7	.4	.4	.6	.6	.0	1.3	5.2	
	4-10	1.5	1.9	3.0	4.1	1.9	2.1	3.0	2.7	.0	.0	20.2	
	11-21	.2	.3	1.5	1.2	.7	.4	1.5	1.3	.0	.0	6.8	
	22+	*	*	*	.0	.0	*	.1	.2	.0	.0	.4	
	TOT %	2.4	2.6	4.9	6.0	2.7	2.9	5.2	4.7	.0	1.3	32.6	
10+	0-3	.8	1.1	1.2	1.2	.8	1.0	.8	1.1	.0	3.7	11.8	
	4-10	1.9	3.5	9.4	8.0	3.4	2.5	4.9	4.6	.0	.0	38.2	
	11-21	.2	.7	2.8	3.0	.5	.4	2.1	2.1	.0	.0	11.7	
	22+	.0	.0	*	.1	.0	.0	.2	.1	.0	.0	.5	
	TOT %	2.9	5.3	13.5	12.2	4.8	3.9	8.0	7.9	.0	3.7	62.1	
TOT OBS													4169
TOT PCT		5.6	8.2	19.3	19.0	7.8	7.2	14.3	13.5	.0	5.1	100.0	

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

ANNUAL

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.9	7.8	8.3	4.3	.3	.0	.5	.0	22.2	77.8	228
06009	.0	.4	2.3	6.4	8.5	6.0	2.4	.8	.0	.0	26.8	73.2	257
12015	.0	.0	1.0	3.9	6.4	6.4	1.7	.0	.0	.4	19.9	80.1	245
18021	.4	.0	.0	6.4	9.4	2.0	1.1	.0	.0	1.7	21.0	79.0	219
TOT PCT	.1	.1	1.1	6.1	8.2	4.8	1.5	.2	.1	.5	22.7	77.3	949 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.7	1.9	3.1	33.0	60.3	769
06009	.5	.7	2.4	2.1	30.3	64.0	1212
12015	.2	.5	1.7	3.3	29.1	65.1	965
18021	.1	.2	1.6	2.4	41.6	54.1	1457
TOT PCT	.4	.5	1.9	2.6	34.3	60.3	4403 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ >AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	12.0	13.5	74.3	207
06009	.0	3.0	13.4	19.5	67.1	220
12015	.0	1.2	6.6	14.8	78.6	225
18021	.5	.5	7.7	15.7	76.6	201
TOT PCT	.1	1.5	9.9	15.9	74.2	853 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.2	.2	.1	.0	.0	.6	.0
85/89	.0	.0	.0	.1	2.3	5.2	2.4	.4	10.4	.5
80/84	.0	.0	.0	.3	3.8	27.3	38.2	7.6	77.2	.3
75/79	.0	.0	.0	.0	.1	1.9	5.6	4.0	11.6	.4
70/74	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
TOTAL PCT	.0	.0	.0	.7	6.4	34.5	46.2	12.2	2153 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.3	.1	.0	.0	.0	.0	.0	.0
1.1	1.1	2.6	1.3	.3	.6	1.1	1.6	.0	.5
4.9	6.1	14.6	15.2	5.5	5.4	10.8	11.4	.0	3.3
.6	.3	1.1	2.4	1.5	1.3	2.7	1.3	.0	.4
.0	.0	.0	.0	.1	.0	.1	.0	.0	.0
6.6	7.6	18.6	19.0	7.5	7.4	14.7	14.5	.0	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	57	85	82	78	76	73	81.5	1292
06009	95	90	88	83	80	77	74	83.3	2339
12015	91	68	85	82	79	77	71	82.1	1590
18021	89	85	84	81	78	76	72	81.0	2892
TOT	95	88	86	82	78	76	71	82.0	8313

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.6	2.1	32.2	49.5	15.6	82	410
06009	.0	1.3	16.0	39.3	35.3	7.5	78	639
12015	.0	.2	4.8	38.7	45.0	11.3	81	496
18021	.0	.5	2.3	27.5	52.8	16.9	83	823
TOT	0	15	148	795	1094	316	81	2368

ANNUAL

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973AREA 0010 SOUTHWEST JAVA SFA
5.58 108.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FDG	NO FDG
9/10	.0	.0	.0	.1	.1	.0	5	.0	.2
7/8	.0	.0	.2	.1	.3	.1	18	.0	.7
6	.0	.0	.0	.0	.1	.0	3	.0	.1
5	.0	.1	.1	.5	.4	.0	26	.0	1.1
4	.0	.1	.9	.7	.1	.0	47	.1	1.7
3	.0	.0	.9	1.4	.0	.0	61	.1	2.3
2	.0	.1	5.1	2.2	.1	.0	188	.2	7.3
1	.0	.7	6.8	1.9	.0	.0	242	.6	8.8
0	.0	2.0	17.9	2.0	.1	.0	563	.7	21.2
-1	.0	2.3	12.7	.8	.0	.0	405	.4	15.4
-2	.1	4.4	14.1	.3	.0	.0	485	.2	18.6
-3	.1	2.5	4.2	.2	.0	.0	174	.2	6.7
-4	.1	3.9	3.4	.1	.0	.0	189	.1	7.3
-5	.3	2.0	.9	.0	.0	.0	84	.0	3.2
-6	.3	1.0	.2	.0	.0	.0	38	.0	1.5
-7/-8	.3	.4	.1	.0	.0	.0	21	.0	.8
-9/-10	.2	.0	.0	.0	.0	.0	4	.0	.2
-11/-13	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL							2554		
PCT	1.4	19.4	67.5	10.3	1.4	.1	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.0	.2	1.2	.0	.0	.0	.0	1.3
1-2	.0	1.6	.2	.0	.0	.0	1.8	.0	1.8	.5	.0	.0	.0	2.3
3-4	.0	.4	.3	.0	.0	.0	.7	.0	.7	.1	.4	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	.7	.2	.0	.0	3.5	.2	3.7	1.3	.4	.0	.0	5.5

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.4	1.1	1.3	.0	.0	.0	.0	2.4
1-2	.5	7.3	1.6	.0	.0	.0	9.4	.8	7.7	2.1	.0	.0	.0	10.5
3-4	.0	1.9	4.9	.2	.0	.0	7.0	.4	2.4	6.3	.3	.0	.0	9.3
5-6	.0	.5	1.7	.0	.0	.0	2.2	.0	.5	2.5	.0	.0	.0	3.0
7	.0	.0	.6	.3	.0	.0	.9	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	10.8	8.8	.7	.0	.0	21.1	2.3	11.9	11.8	.5	.0	.0	26.5

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0010 SOUTHWEST JAVA SEA
5.95 108.7E

TABLE 18 (CONT)

PCT FREE OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.5	.0	.0	.0	.0		.9	.7	.2	.0	.0	.0	.0		.9
1-2	.4	1.7	.8	.0	.0	.0		2.9	1.1	2.3	.4	.0	.0	.0		3.8
3-4	.0	1.0	.0	.0	.0	.0		1.0	.2	.4	.7	.0	.0	.0		1.3
5-6	.0	.0	.2	.0	.0	.0		.2	.0	.0	.3	.2	.0	.0		.4
7	.0	.0	.2	.0	.0	.0		.2	.0	.2	.0	.0	.0	.0		.2
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	3.2	1.3	.0	.0	.0		5.3	1.9	3.1	1.3	.2	.0	.0		6.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	2.0	.0	.0	.0	.0		2.0	.0	.0	.0	.0	.0	.0		.6	
1-2	.6	4.1	.5	.0	.0	.0		5.3	.3	2.9	1.3	.0	.0	.0		4.5	
3-4	.0	.8	1.7	.0	.0	.0		2.5	.0	1.9	2.3	.0	.0	.0		4.2	
5-6	.0	.0	1.5	.4	.0	.0		1.9	.0	1.2	1.1	.4	.0	.0		1.7	
7	.0	.0	.7	.0	.0	.0		.7	.0	.0	.2	.2	.0	.0		.3	
8-9	.0	.0	.4	.1	.0	.0		.5	.0	.0	.3	.5	.0	.0		.9	
10-11	.0	.0	.0	.0	.7	.0		.7	.0	.0	.0	.0	.1	.0		.1	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.6	6.9	4.9	.5	.7	.0		13.7	.3	5.5	5.2	1.2	.1	.0		12.3	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.9	7.3	.0	.0	.0	.0	16.2	
1-2	4.0	29.0	7.4	.0	.0	.0	40.3	
3-4	.6	9.5	16.1	.9	.0	.0	27.0	
5-6	.0	1.2	7.4	.9	.0	.0	9.5	
7	.0	.2	2.8	.6	.0	.0	3.6	
8-9	.0	.0	1.3	1.1	.0	.0	2.3	
10-11	.0	.0	.0	.0	.8	.0	.8	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.5	47.1	34.9	5.6	.8	.0	100.0	407

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.7	28.8	18.6	4.8	2.0	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	492	2
6-7	.0	2.5	5.2	3.8	1.7	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	4
8-9	.0	.1	1.1	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
10-11	.0	.5	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.7	2.4	1.0	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	1
TOTAL																				734	3
PCT	20.3	34.3	26.6	10.1	4.7	3.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1855-1973

AREA 0010 SOUTHWEST JAVA SEA
5.55 108.7E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.2	.3	.0	.9	.3	.0	.0	.0	.9	.0	.2	17	.2
87/88	.5	.8	3.0	3.3	3.8	2.6	.7	.1	.4	1.1	2.7	2.9	132	1.8
85/86	9.0	9.1	17.3	28.9	27.4	13.6	2.9	2.6	3.5	12.9	22.0	17.6	997	13.3
83/84	30.3	30.9	38.6	45.9	44.6	44.3	33.7	16.4	27.8	43.2	49.0	41.3	2746	36.6
81/82	49.2	48.1	33.6	21.7	21.0	32.9	52.0	58.5	53.5	35.0	23.1	32.0	2921	39.0
79/80	9.4	10.7	6.8	1.7	1.9	5.0	8.3	19.7	12.9	5.9	3.2	3.2	787	7.8
77/78	1.0	2.1	.5	.3	.2	.3	2.2	1.7	1.6	.2	.0	.6	72	1.0
75/76	.5	.2	.0	.2	.2	.2	.0	.4	.3	.9	.0	.2	18	.2
73/74	.2	.0	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	8	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	600	657	643	636	634	605	721	689	706	560	563	484	7498	100.0
MEAN	82.3	82.3	82.9	83.6	83.7	82.9	82.1	81.4	81.9	82.8	83.5	83.1	82.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1009	1009	1008	1009	1010	1010	1009	1009	284
FEB	1010	1009	1009	1008	1009	1009	1010	1009	1009	323
MAR	1010	1010	1010	1008	1009	1009	1010	1009	1009	371
APR	1010	1010	1009	1008	1009	1010	1010	1008	1009	287
MAY	1010	1010	1009	1008	1009	1009	1010	1009	1009	286
JUN	1010	1010	1010	1009	1009	1010	1010	1009	1010	278
JUL	1011	1010	1010	1009	1010	1010	1010	1010	1010	287
AUG	1011	1011	1010	1009	1010	1011	1011	1010	1010	322
SEP	1011	1011	1011	1008	1010	1010	1010	1010	1010	260
OCT	1011	1011	1011	1009	1010	1010	1010	1010	1010	309
NOV	1011	1010	1009	1008	1010	1009	1010	1009	1009	281
DEC	1010	1010	1009	1008	1009	1008	1009	1008	1009	228
ANN	1010	1010	1010	1008	1009	1010	1010	1009	1010	3516
OBS	485	95	638	411	582	174	608	523		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1003	1003	1008	1009	1011	1013	1013	1014
FEB	1002	1002	1003	1008	1009	1011	1013	1014	1015
MAR	1004	1005	1006	1006	1009	1011	1012	1013	1014
APR	1004	1005	1006	1008	1009	1010	1013	1013	1014
MAY	1005	1005	1006	1008	1009	1010	1012	1013	1014
JUN	1003	1005	1007	1008	1010	1011	1013	1014	1016
JUL	1005	1006	1008	1009	1010	1011	1012	1013	1014
AUG	1004	1006	1007	1009	1010	1011	1013	1014	1015
SEP	1004	1004	1007	1009	1010	1011	1013	1013	1015
OCT	1005	1006	1007	1009	1010	1011	1014	1014	1015
NOV	1004	1004	1006	1008	1010	1011	1012	1013	1014
DEC	1004	1004	1006	1007	1009	1010	1012	1013	1014

JANUARY

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

AREA 0011 SOUTH CENTRAL JAW
7.85 109.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG 'NDW	NO SIG WEA
N	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	14.8	.0	.0	.0	.0	.0	.0	14.8	.0	.0	.0	.0	11.1	.0	74.1
SW	12.7	7.0	.0	.0	.0	.0	.0	19.7	.0	5.6	.0	.0	1.4	.0	73.2
W	11.4	2.3	.0	.0	.0	.0	.0	13.6	3.0	.0	.0	.0	.0	.0	83.3
NW	.0	4.5	4.5	.0	.0	.0	.0	9.1	4.5	.0	.0	.0	4.5	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	16.7	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	7.8	3.9	1.0	.0	.0	.0	.0	12.7	2.0	1.0	.0	.0	2.0	.0	82.4
TOT OBS:	102														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.9	2.9	2.9	.0	.0	.0	.0	8.6	.0	.0	.0	.0	8.6	.0	82.9
06009	6.1	6.1	.0	.0	.0	.0	.0	12.1	3.0	.0	.0	.0	.0	.0	84.8
12015	15.2	3.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	81.8
18021	.0	.0	.0	.0	.0	.0	.0	.0	11.1	11.1	.0	.0	.0	.0	77.8
TOT PCT TOT OBS:	7.3 110	3.6	.9	.0	.0	.0	.0	11.8	1.8	.9	.0	.0	2.7	.0	82.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	2.9	.4	.0	.0	.0		4.3	5.5	6.0	.0	7.7	1.0	1.3	50.0	2.8	4.5	
NE	.4	2.5	.0	.0	.0	.0		2.9	5.6	7.7	.0	3.0	3.0	.0	.0	3.6	3.6	
E	1.3	1.4	.0	.0	.0	.0		2.7	4.3	5.0	12.5	2.4	.0	1.9	.0	1.5	2.7	
SE	1.3	4.1	.0	.0	.0	.0		5.3	5.2	6.0	12.5	5.4	4.0	5.8	.0	6.5	3.6	
S	1.3	5.5	.0	.0	.0	.0		6.8	5.2	3.4	25.0	3.0	10.0	9.6	50.0	9.3	4.5	
SW	3.4	10.9	4.4	.4	.0	.0		19.2	8.2	5.6	.0	17.3	36.0	26.9	.0	17.6	16.1	
W	4.5	16.4	12.5	3.3	.0	.0		37.1	11.0	34.0	.0	40.2	33.0	39.1	.0	37.0	41.1	
NW	2.6	7.1	4.8	.9	.0	.0		13.4	10.1	23.0	30.0	12.8	7.0	10.3	.0	10.2	11.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.4							8.4	.0	10.4	.0	8.3	6.0	5.1	.0	9.3	12.5	
TOT OBS	95	193	89	18	0	0		395	8.1	67	4	84	50	78	2	54	56	
TOT PCT	24.1	48.9	22.5	4.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.4	.9	.0	.0	.0		4.3	5.5	5.6	5.2	2.5	3.6	
NE	2.2	.8	.0	.0	.0		2.9	5.6	3.5	3.0	.0	4.5	
E	2.2	.5	.0	.0	.0		2.7	4.3	6.3	1.5	1.9	2.3	
SE	4.1	1.3	.0	.0	.0		5.3	5.2	6.3	4.9	5.6	5.0	
S	5.3	1.5	.0	.0	.0		6.8	5.2	4.6	5.6	10.6	6.8	
SW	8.3	9.2	1.5	.1	.0		19.2	8.2	5.3	24.3	26.3	16.8	
W	11.0	17.3	7.7	1.0	.0		37.1	11.0	32.0	37.5	38.1	39.1	
NW	5.4	4.7	3.2	.1	.0		13.4	10.1	26.4	10.6	10.0	10.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	8.4						8.4	.0	9.9	7.5	9.0	10.9	
TOT OBS	198	145	49	5	0	395		8.1	71	134	80	110	
TOT PCT	50.1	36.2	12.4	1.3	.0		100.0		100.0	100.0	100.0	100.0	

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	9.9	23.9	43.7	16.9	5.6	.0	.0	7.3	100.0	71
0600Z	7.5	17.2	45.5	24.6	5.2	.0	.0	8.7	100.0	54
1200Z	6.0	17.5	56.5	22.5	2.5	.0	.0	7.1	100.0	130
1800Z	10.9	7.3	53.6	22.6	4.5	.0	.0	8.3	100.0	110
TOT	33	62	193	89	1.6	.0	0	6.1		395
PCT	8.4	15.7	48.9	22.5	4.8	.0	.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 3/8$ BY WIND DIRECTION

BY WIND DIRECTION						AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
							000	150	300	600	1000	2000	3500	5000	6500	8000+		
							149	299	399	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	2.8	.0	.0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
SE	2.8	.0	.0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
S	5.6	5.6	.0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	5.6	5.6	16.7	.0		5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	5.6	5.6	2.8	11.1		5.6	.0	.0	.0	5.6	2.8	.0	.0	.0	.0	.0	.0	16.7
NW	.0	.0	8.3	11.1		7.5	.0	.0	.0	5.6	.0	2.8	.0	.0	.0	.0	.0	11.1
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.6	1.6	.0		5.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	5.6
TOT OBS	4	4	6		18	5.1	.0	.0	1	2	1	0	0	0	0	0	1	
TOT PCT	22.2	22.2	33.3	22.2	100.0		.0	.0	.0	5.6	11.1	5.6	.0	.0	.0	.0	77.8	100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

[illegible]

PCT FREQ NH <5/8: 77.8

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	11.1	11.1	27.0	27.0	5.6	11.2	5.6	.0	.0	10

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

JANUARY

AREA 0011 SOUTH CENTRAL JAVA
7.85 109.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	.0
	TOT %	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	.0
5<10	PCP	1.0	.0	.0	.0	1.0	2.0	2.0	.0	.0	.0	6.9	.0
	NO PCP	1.0	.0	.0	.0	1.0	.0	4.4	.5	.0	.0	6.9	.0
	TOT %	2.0	.0	.0	.0	2.0	2.0	6.9	.5	.0	.0	13.7	.0
10+	PCP	.0	.0	.0	.0	.0	1.0	2.0	2.0	.0	1.0	5.9	.0
	NO PCP	7.8	1.5	2.0	2.9	4.7	13.0	23.5	19.1	.0	4.9	79.4	.0
	TOT %	7.8	1.5	2.0	2.9	4.7	14.0	25.5	21.1	.0	5.9	85.3	.0
TOT OBS		9.8	1.5	2.0	2.9	6.6	17.4	32.4	21.6	.0	5.9	100.0	102
TOT PCT		9.8	1.5	2.0	2.9	6.6	17.4	32.4	21.6	.0	5.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.5	.0	.0	.0	.5	.3	.0	.0	.0	1.6	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.5	.0	.0	.0	.5	.3	.3	.0	.0	1.6	.0
5<10	0-3	.0	.0	.0	.0	.5	.5	2.0	.1	.0	.0	3.2	.0
	4-10	1.1	.0	.3	.3	.5	.8	1.7	.7	.0	.0	5.3	.0
	11-21	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.1	.0	.3	.3	1.1	1.3	4.8	.8	.0	.0	9.3	.0
10+	0-3	2.1	.8	1.1	1.9	1.6	4.2	6.3	4.2	.0	6.9	29.1	.0
	4-10	3.4	1.9	2.1	6.6	6.0	8.6	13.0	6.1	.0	.0	47.6	.0
	11-21	.5	.0	.0	.0	.0	3.2	3.7	3.2	.0	.0	10.6	.0
	22+	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	1.6	.0
	TOT %	6.1	2.6	3.2	8.5	7.5	16.0	23.8	14.3	.0	6.9	88.9	.0
TOT OBS		7.1	3.2	3.4	8.7	8.6	17.9	28.8	15.3	.0	6.9	100.0	189
TOT PCT		7.1	3.2	3.4	8.7	8.6	17.9	28.8	15.3	.0	6.9	100.0	

JANUARY

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967AREA 0011 SOUTH CENTRAL JAVA
7.85 109.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	20.0	20.0	20.0	.0	.0	.0	.0	60.0	40.0	5
06009	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	25.0	75.0	4
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
TOT	0	0	0	1	2	1	0	0	0	0	4	14	18
PCT	.0	.0	.0	5.6	11.1	5.6	.0	.0	.0	.0	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	2.1	2.1	4.3	91.5	47
06009	.0	.0	.0	.0	3.6	96.4	56
12015	.0	.0	.0	.0	26.5	73.5	49
18021	.0	.0	.0	4.4	6.7	88.9	45
TOT	0	0	1	3	20	173	197
PCT	.0	.0	.5	1.5	10.2	87.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<175 <500 FT	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	20.0	40.0	40.0	5
06009	.0	.0	.0	25.0	75.0	4
12015	.0	.0	.0	.0	100.0	5
18021	.0	.0	25.0	.0	75.0	4
TOT	0	0	2	3	13	18
PCT	.0	.0	11.1	16.7	72.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.6	.0	.0	.0	1	1.6
85/89	.0	.0	.0	.0	3.3	8.2	6.6	.0	11	18.0
80/84	.0	.0	.0	.0	1.6	8.2	39.2	6.6	34	55.7
75/79	.0	.0	.0	.0	.0	1.6	13.1	9.8	15	24.6
TOTAL	0	0	0	0	4	11	36	10	61	100.0
PCT	.0	.0	.0	.0	6.6	18.0	59.0	16.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
1.6	.0	.0	.0	.0	4.9	6.6	4.9	.0	.0
.0	.0	.8	2.5	3.3	13.5	22.1	10.2	.0	3.3
3.3	.0	.0	.0	1.2	.8	9.4	8.2	.0	1.6
4.9	.0	.8	2.5	4.5	19.3	38.1	23.4	.0	6.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	86	85	81	77	74	74	80.7	73
06009	92	91	89	83	78	78	75	83.6	123
12015	85	84	84	82	78	76	76	81.6	79
18021	84	83	83	80	77	75	75	80.1	106
TOT	92	90	87	81	77	76	74	81.7	381

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	8.7	4.3	52.2	34.8	86	23
06009	.0	.0	12.5	43.8	43.8	.0	76	16
12015	.0	.0	.0	14.3	71.4	14.3	85	21
18021	.0	.0	.0	.0	100.0	.0	84	4
TOT	0	0	4	11	38	11	83	64

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1857-1967

JANUARY

TABLE 17

AREA 001: SOUTH CENTRAL JAVA
7.85 109.9E

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
6	.0	.0	.0	2.6	1	.0	2.4
3	.0	.0	2.6	.0	1	.0	2.6
2	.0	.0	2.6	.0	1	.0	2.6
0	.0	21.1	2.6	.0	9	.0	23.7
-1	5.3	13.2	.0	.0	7	.0	18.4
-2	5.3	18.4	.0	.0	9	.0	23.7
-3	.0	2.6	2.6	.0	2	.0	5.3
-4	7.9	10.5	.0	.0	7	.0	18.4
-5	.0	2.6	.0	.0	1	.0	2.6
TOTAL	7	26	4	1	38	0	38
PCT	18.4	68.4	10.5	2.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1967

JANUARY

AREA 0011 SOUTH CENTRAL JAVA
7.0S 109.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	9.1	.0	.0	.0	.0		9.1
1-2	.0	9.1	.0	.0	.0	.0		9.1	.0	.0	18.2	.0	.0	.0		18.2
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	9.1	.0	.0	.0		9.1
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	9.1	.0	.0	.0	.0		9.1	.0	9.1	27.3	.0	.0	.0		36.4

HGT	N							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	9.1	.0	.0	.0	.0		9.1
1-2	.0	9.1	.0	.0	.0	.0		9.1	.0	.0	.0	.0	.0	.0		.0
3-4	.0	9.1	.0	.0	.0	.0		9.1	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	9.1	.0	.0		9.1	.0	.0	9.1	.0	.0	.0		9.1
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	9.1	.0	.0		9.1
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	18.2	.0	9.1	.0	.0		27.3	.0	9.1	9.1	9.1	.0	.0		100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	18.2	.0	.0	.0	.0	18.2	
1-2	.0	18.2	18.2	.0	.0	.0	36.4	
3-4	.0	9.1	.0	.0	.0	.0	9.1	
5-6	.0	.0	18.2	9.1	.0	.0	27.3	
7	.0	.0	.0	9.1	.0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	45.5	36.4	18.2	.0	.0	100.0	11

PERIOD: (OVER-ALL) 1953-1967

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.7	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
6-7	.0	.0	6.7	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	13.3	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
INDET	.0	6.7	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
TOTAL	.0	4	26.7	.0	.0	13.3	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
PCT	.0	26.7	26.7	.0	6.7	20.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973AREA 0011 SOUTH CENTRAL JAVA
7.85 109.96

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	3.8	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	15.4	.0	.0	80.8
E	.0	7.9	.0	.0	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	92.1
SE	.0	5.1	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	.0	94.9
S	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	94.1
SW	9.4	1.2	.0	.0	.0	.0	.0	10.6	.0	4.7	.0	.0	.0	.0	.0	84.7
W	7.1	4.7	3.6	.0	.0	.0	.0	13.4	.0	10.7	.0	.0	.0	.0	.0	79.5
NW	8.5	.0	.0	.0	.0	.0	.0	8.5	4.3	.0	.0	.0	.0	.0	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	4.5	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	4.5	.0	.0	86.4
TOT PCT	5.3	3.0	.8	.0	.0	.0	.0	9.0	.8	3.0	.0	.0	1.5	.0	.0	86.5
TOT OBS:	133															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST DUST	NO SIG WEA
00Z03	2.5	.0	.0	.0	.0	.0	.0	2.5	2.5	.0	.0	.0	2.5	.0		92.5
06Z09	2.1	2.1	.0	.0	.0	.0	.0	4.3	.0	2.1	.0	.0	.0	.0		93.7
12Z15	11.1	4.4	2.2	.0	.0	.0	.0	17.8	2.2	2.2	.0	.0	2.2	.0		75.6
18Z21	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	22.2	.0	.0	.0	.0		86.7
TOT PCT TOT OBS	5.0 141	2.8	.7	.0	.0	.0	.0	8.5	1.4	2.8	.0	.0	1.4	.0		86.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
								OBS	FREQ	SPD								
N	1.0	2.8	.1	.0	.0	.0			3.8	5.7	6.3	.0	5.2	.0	.9	.0	5.6	4.9
NE	1.4	2.5	.3	.0	.0	.0			4.1	5.2	7.1	66.7	1.7	.0	3.1	.0	2.8	6.9
E	.8	4.3	.1	.0	.0	.0			5.2	5.9	10.8	.0	1.7	1.9	4.8	.0	4.1	6.9
SE	3.0	3.9	.2	.0	.0	.0			7.1	4.5	3.2	.0	11.0	9.3	9.4	.0	6.3	3.5
S	1.8	4.7	.0	.0	.0	.0			6.5	5.0	1.1	.0	1.7	14.8	11.0	.0	8.8	4.2
SW	3.5	10.3	2.7	.1	.2	.0			16.7	7.4	9.2	16.7	12.2	28.0	27.2	33.3	4.4	6.9
W	4.3	14.2	6.0	1.4	.6	.0			27.4	9.7	22.9	16.7	33.1	28.7	26.5	.0	28.8	27.1
NW	4.4	11.2	2.5	.1	.0	.0			18.2	6.6	25.8	.0	20.3	5.6	7.5	66.7	23.1	25.7
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8								10.8	.0	13.7	.0	12.8	1.9	9.6	.0	11.3	13.9
TOT OBS	157	278	60	8	4	0	507		6.5		95	3	86	54	114	3	80	72
TOT PCT	31.0	54.8	11.8	1.6	.8	.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL	PCT	MEAN	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
						OBS	FREQ	SPD					
N	2.7	1.1	.1	.0	.0			3.8	5.7	6.1	4.2	.9	5.3
NE	3.1	1.0	.0	.0	.0			4.1	5.2	8.9	1.1	3.0	4.8
E	3.5	1.7	.0	.0	.0			5.2	5.9	10.5	1.8	4.7	5.4
SE	5.7	1.4	.0	.0	.0			7.1	4.5	3.1	10.4	9.2	4.9
S	5.2	1.3	.0	.0	.0			6.5	5.0	1.0	6.8	10.7	6.6
SW	9.0	7.0	.5	.1	.1			16.7	7.4	9.4	22.1	27.4	8.2
W	10.8	12.6	2.9	.8	.3			27.4	9.7	22.7	31.4	25.9	28.0
NW	11.1	6.6	.4	.1	.0			18.2	6.6	25.0	14.6	9.0	24.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	13.7	8.6	9.4	12.5
TOT OBS	314	166	20	5	2	507		6.5		98	140	117	192
TOT PCT	61.9	32.7	3.9	1.0	.4			100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.85 109.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				1-21	22-33	34-47				
0000	13.3	26.5	50.0	10.2	.0	.0	.0	5.2	100.0	98
0600	8.6	22.9	53.6	13.6	1.4	.0	.0	6.5	100.0	140
1200	9.4	17.9	55.6	13.7	2.6	.9	.0	6.8	100.0	117
1800	12.3	15.1	58.6	9.9	2.0	2.0	.0	7.0	100.0	152
TOT	99	102	278	60	8	4	0	6.5		507
PCT	10.8	20.1	54.8	11.8	1.6	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	.0	.0
NE	.0	.0	5.0	.0	5.2	5.2
E	.0	8.0	3.0	.0	4.1	4.1
SE	.0	4.0	.0	.0	3.0	3.0
S	.0	4.0	.0	.0	3.0	3.0
SW	.0	13.0	1.0	.0	3.5	3.5
W	.0	26.0	11.0	4.0	4.5	4.5
NW	.0	1.0	4.0	8.0	7.3	7.3
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	8.0	.0	.0	3.5	3.5
TOT OBS	0	16	6	3	25	4.5
TOT PCT	.0	64.0	24.0	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH ANY	<5/8 HGT	TOTAL OBS
							149	299	599	999	1999	3499	4999	6499	7999				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	5.0	.0	5.2	5.2	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	1.0	
E	.0	8.0	3.0	.0	4.1	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	
SE	.0	4.0	.0	.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
S	.0	4.0	.0	.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
SW	.0	13.0	1.0	.0	3.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0	
W	.0	26.0	11.0	4.0	4.5	4.5	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	37.0	
NW	.0	1.0	4.0	8.0	7.3	7.3	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	9.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	8.0	.0	.0	3.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
TOT OBS	0	16	6	3	25	4.5	0	0	1	0	0	2	0	0	0	0	22		25
TOT PCT	.0	64.0	24.0	12.0	100.0		.0	.0	4.0	.0	.0	8.0	.0	.0	.0	.0	88.0		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM)				OR >1/4	OR >500	OR >0
				OR >1	OR >1/2	OR >1/4	OR >500			
OR >6550	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
OR >1000	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
OR >600	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
OR >300	6.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
OR >150	6.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
OR >0	6.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
TOTAL	2	3	3	3	3	3	3	3	3	3

TOTAL NUMBER OF OBS: 29

PCT FREQ NH <5/8: 89.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
.0	6.9	24.1	37.9	20.7	6.9	.0	3.4	.0	.0	29

FEBRUARY

 PERIOD: (PRIMARY) 1914-1973
 (OVER-ALL) 1870-1973

 AREA 0011 SOUTH CENTRAL JAVA
 7.85 109.9E

TABLE 8

 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0
5<10	PCP	.0	.2	.0	.4	.4	.0	.8	.8	.0	.8	3.8	.0
	NO PCP	.0	.8	2.3	.0	1.5	1.5	3.0	.0	.0	3.0	13.6	.0
	TOT %	.0	.9	2.8	.4	1.9	1.5	2.3	3.8	.0	3.8	17.4	.0
10+	PCP	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.8	3.0	.0
	NO PCP	.0	3.2	4.4	7.0	4.5	12.1	16.9	13.3	.0	12.1	76.5	.0
	TOT %	.0	3.2	4.4	7.0	4.5	13.1	18.2	13.3	.0	12.9	79.5	.0
TOT OBS													132
TOT PCT		3.0	4.9	7.2	7.4	6.4	16.1	20.3	17.8	.0	16.7	100.0	

TABLE 9

 PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
 WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.0
2<5	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.8	.0
	4-10	.0	.4	.0	.0	.2	.6	.0	.4	.0	.0	1.6	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.0	.2	1.0	.0	.4	.0	.4	2.4	.0
5<10	0-3	.0	.0	.0	.2	.2	.0	.0	.4	.0	2.0	2.8	.0
	4-10	.0	.5	1.5	.6	1.0	1.2	1.4	1.8	.0	.0	7.9	.0
	11-21	.0	.0	.0	.0	.0	.2	1.2	.6	.0	.0	2.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.5	1.5	.8	1.2	1.4	2.6	2.8	.0	2.0	12.6	.0
10+	0-3	1.8	.8	1.2	3.9	2.0	3.6	5.0	4.1	.0	11.8	34.3	.0
	4-10	3.7	1.9	4.0	4.2	4.5	6.5	10.0	8.4	.0	.0	43.3	.0
	11-21	.2	.4	.0	.4	.0	1.2	3.4	1.5	.0	.0	7.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	5.7	3.1	5.2	8.6	6.5	11.3	18.5	14.0	.0	11.8	84.6	.0
TOT OBS													254
TOT PCT		5.7	3.9	6.7	9.4	7.9	13.7	21.3	17.3	.0	14.2	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

AREA 0011 SOUTH CENTRAL JAVA
7.85 109.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	28.6	71.4	7
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8
18021	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	1	0	0	2	0	0	0	0	3	26	29
PCT	.0	.0	3.4	.0	.0	6.9	.0	.0	.0	.0	10.3	89.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.0	.0	1.6	7.9	90.5	63
06009	.0	.0	.0	.0	11.7	88.3	77
12015	.0	.0	.0	5.9	19.1	75.0	68
18021	.0	.0	1.9	1.9	13.0	83.3	54
TOT	0	0	1	6	34	221	262
PCT	.0	.0	.4	2.3	13.0	84.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8 AND 5+	TOTAL
(GMT)	<50VD	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.0	.0	28.6	71.4	7
06009	.0	.0	.0	.0	100.0	9
12015	.0	.0	.0	.0	100.0	8
18021	.0	20.0	20.0	.0	80.0	5
TOT	0	1	1	2	26	29
PCT	.0	3.4	3.4	6.9	89.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	3.1	1.0	1.0	.0	5	5.2
85/89	.0	.0	.0	.0	4.2	10.4	5.2	5.2	24	25.0
80/84	.0	.0	.0	.0	.0	13.6	31.3	11.5	56	58.3
75/79	.0	.0	.0	.0	.0	.0	2.1	9.4	11	11.5
TOTAL	0	0	0	0	7	26	38	25	96	100.0
PCT	.0	.0	.0	.0	7.3	27.1	39.6	26.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	2.1	.0	.0	2.1	.0	.0	1.0
2.1	1.0	3.1	3.1	1.0	3.1	4.2	3.1	.0	4.2
1.0	1.6	5.7	1.8	7.8	9.9	14.3	9.9	.0	6.3
.0	.0	.0	1.0	.0	1.0	4.2	1.0	.0	4.2
3.1	2.6	8.9	8.1	8.9	14.1	24.7	14.1	.0	15.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	89	88	86	80	77	75	75	80.5	102
06009	92	91	90	84	80	78	77	84.3	138
12015	87	86	85	82	79	76	76	82.1	114
18021	85	84	83	81	76	74	73	80.4	149
TOT	92	90	87	82	77	75	73	81.9	503

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	.0	.0	.0	25.0	32.1	42.9	86	28	28
06009	.0	.0	.0	23.5	35.3	29.4	11.8	78	34	34
12015	.0	.0	.0	.0	11.8	52.9	35.3	87	34	34
18021	.0	.0	.0	.0	66.7	33.3	.0	80	6	6
TOT	0	0	0	8	27	39	28	83	102	102

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1870-1973

FEBRUARY

AREA 0011 SOUTH CENTRAL JAVA
7.85 109.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TU*	N FOG	NO FOG
7/8	.0	.0	1.6	.0	1	.0	1.6
6	.0	.0	.0	1.6	1	.0	1.6
5	.0	.0	.0	1.6	1	.0	1.6
4	.0	.0	3.2	.0	2	.0	3.2
3	.0	3.2	3.2	.0	4	.0	6.3
2	.0	1.6	1.6	.0	2	.0	3.2
1	.0	1.6	3.2	.0	3	.0	4.8
0	.0	12.7	3.2	.0	10	.0	15.9
-1	.0	6.3	4.8	.0	7	.0	11.1
-2	3.2	11.1	1.6	.0	10	.0	15.9
-3	.0	12.7	.0	.0	8	.0	12.7
-4	3.2	12.7	.0	.0	10	.0	15.9
-6	.0	1.6	.0	.0	1	.0	1.6
-7/-8	1.6	3.2	.0	.0	3	.0	4.8
TOTAL	5	2	14	2	63	0	63
PCT	7.9	66.7	22.2	3.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (#)

								NE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	6.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.7	.0	.0	.0	8.3	

								SE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	11.7	.0	.0	.0	.0	11.7	.0	6.7	.0	.0	.0	.0	6.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	18.3	.0	.0	.0	.0	18.3	.0	6.7	.0	.0	.0	.0	6.7	

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY
TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.8S 109.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.0	.0	.0	.0	.0	.0	8.3	6.7	.0	.0	.0	.0	.0	15.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	8.3	.0	.0	.0	.0	8.3	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7	8.3	15.0	.0	.0	.0	.0	23.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	5.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	.0	.0	.0	.0	5.0	.0	6.7	.0	.0	.0	.0	6.7	.0
3-4	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	5.0	.0	.0	.0	5.0	.0	6.7	1.7	.0	.0	.0	6.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.0	11.7	5.0	.0	.0	.0	21.7	.0	13.3	1.7	.0	.0	.0	15.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	18.8	6.3	.0	.0	.0	.0	25.0	
1-2	.0	31.3	6.3	.0	.0	.0	37.5	
3-4	.0	25.0	.0	.0	.0	.0	25.0	
5-6	.0	6.3	6.3	.0	.0	.0	12.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.8	68.8	12.5	.0	.0	.0	100.0	16

PERIOD: (OVER-ALL) 1953-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	.0	28.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
6-7	.0	.0	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
8-9	.0	.0	4.0	4.0	8.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
10-11	.0	4.0	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
12-13	.0	.0	8.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
TOTAL	.0	1	12	8	3	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
PCT	.0	4.0	48.0	32.0	12.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

MARCH

TABLE 1

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.0E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA									
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA										
N	90.0	.0	.0	.0	.0	.0	.0	90.0	.0	.0	.0	.0	.0	.0	90.0										
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
SE	33.3	.0	.0	.0	.0	.0	.0	33.3	20.0	40.0	.0	.0	.0	.0	40.0										
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	66.7										
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
W	25.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
NW	19.5	.0	.0	.0	.0	.0	.0	25.8	.0	25.8	.0	.0	.0	.0	100.0										
VAR	.0	.0	.0	.0	.0	.0	.0	18.5	14.8	.0	.0	.0	.0	.0	61.3										
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66.7										
TOT PCT	15.6	.0	.0	.0	.0	.0	.0	33.3	33.3	33.3	.0	.0	.0	.0	33.3										
TOT OBS:	32	.0	.0	.0	.0	.0	.0	15.6	9.4	18.8	.0	.0	.0	.0	42.5										

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	85.7
12015	30.0	.0	.0	.0	.0	.0	.0	30.0	.0	40.0	.0	.0	.0	.0	50.0
18021	14.3	.0	.0	.0	.0	.0	.0	14.3	42.9	14.3	.0	.0	.0	.0	28.6
TOT PCT	15.6	.0	.0	.0	.0	.0	.0	15.6	9.4	18.8	.0	.0	.0	.0	62.3
TOT OBS:	32														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.4	6.5	.1	.0	.0	.0	8.0	5.8	10.5	.0	3.4	4.8	4.2	.0	12.9	12.9	
NE	1.5	3.4	.1	.0	.0	.0	5.1	5.0	11.0	.0	6.0	.0	1.4	.0	6.5	6.7	
E	.8	6.6	.7	.0	.0	.0	8.2	6.3	8.0	.0	15.5	2.9	9.9	.0	6.5	5.8	
SE	2.1	6.9	.6	.0	.0	.0	9.6	6.5	8.0	.0	9.5	11.5	12.0	.0	11.3	5.0	
S	2.8	7.8	.3	.0	.0	.0	5.9	4.9	3.0	.0	6.0	20.2	4.2	.0	2.4	1.7	
SW	2.5	9.4	1.7	.0	.0	.0	13.7	6.5	7.0	.0	21.6	25.0	14.8	.0	5.6	9.2	
W	4.9	13.2	6.5	.6	.0	.0	25.1	8.5	26.0	75.0	24.1	30.8	26.1	100.0	20.2	22.5	
NW	2.7	10.6	3.5	.0	.0	.0	16.8	7.8	18.5	25.0	5.2	2.9	20.4	.0	23.4	27.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	94	211	48	2	0	0	355	7.6	8.0	.0	8.6	1.9	7.0	.0	11.3	8.3	
TOT PCT	26.5	59.4	13.5	.6	.0	.0	100.0	6.5	50	1	58	32	71	1	62	60	
									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	5.5	2.5	.0	.0	.0	8.0	5.8	10.3	4.1	4.2	12.9	
NE	3.9	1.1	.0	.0	.0	5.1	5.0	10.8	3.2	1.4	6.6	
E	5.8	2.5	.0	.0	.0	8.2	6.3	7.8	9.5	9.7	6.1	
SE	4.9	4.6	.0	.0	.0	9.6	6.5	7.8	10.5	11.8	8.2	
S	4.2	1.7	.0	.0	.0	5.9	4.9	2.9	12.7	4.2	2.0	
SW	7.5	3.8	.4	.0	.0	13.7	6.5	6.9	23.2	14.6	7.4	
W	10.0	12.5	2.7	.0	.0	25.1	8.5	27.0	27.3	27.1	21.3	
NW	7.3	8.7	.8	.0	.0	16.8	7.8	18.6	4.1	20.1	23.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.6	.0	.0	.0	.0	.0	.0	7.8	5.5	6.9	9.8	
TOT OBS	201	140	14	0	0	355	7.6	91	110	72	122	
TOT PCT	56.6	39.4	3.9	.0	.0	100.0	6.5	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

MARCH

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	7.8	19.6	60.8	11.8	.0	.0	.0	.0	6.3	100.0	51
06009	5.5	20.9	59.1	12.7	1.8	.0	.0	.0	6.7	100.0	110
12015	6.9	19.4	58.3	15.3	.0	.0	.0	.0	6.7	100.0	72
18021	9.8	16.4	59.8	13.9	.0	.0	.0	.0	6.4	100.0	122
TOT	7.7	18.7	59.4	13.5	.6	.0	.0	.0	6.5		355
PCT	7.6	18.9	59.4	13.5	.6	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD COVER	MEAN
N	.0	.0	.0	5.4	6.0	
NE	.0	.0	.0	.0	.0	
E	3.6	3.6	3.6	3.6	4.2	
SE	.0	.0	.0	3.6	8.0	
S	.0	.0	.0	.0	.0	
SW	.0	7.1	7.1	3.6	5.4	
W	.0	3.6	6.3	17.9	7.2	
NW	3.6	.0	11.6	5.4	6.2	
VAR	.0	.0	.0	.0	.0	
CALM	.0	3.6	3.6	3.6	5.6	
TOT OBS	2	5	9	12	28	
TOT PCT	7.1	17.9	32.1	42.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	3.6	.0	3.6	.0	.0	.0	.0	7.1
SE	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	.0	.0	10.7
W	7.1	.0	3.6	3.6	.0	3.6	.0	.0	.0	.0	.0	9.8
NW	4.5	.0	.0	.0	.9	3.6	.0	.0	.0	.0	.0	11.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	7.1
TOT OBS	4	0	1	2	3	3	2	0	0	0	13	28
TOT PCT	14.3	.0	3.6	7.1	10.7	10.7	7.1	.0	.0	.0	46.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	3.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1
= OR >2000	10.7	14.3	17.9	17.9	17.9	17.9	17.9	17.9	17.9
= OR >1000	17.9	25.0	28.6	28.6	28.6	28.6	28.6	28.6	28.6
= OR >600	25.0	32.1	35.7	35.7	35.7	35.7	35.7	35.7	35.7
= OR >300	28.6	35.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3
= OR >150	28.6	35.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3
= OR >0	28.6	35.7	42.9	50.0	50.0	53.6	53.6	53.6	53.6
TOTAL	8	10	12	14	14	15	15	15	15

TOTAL NUMBER OF OBS: 28 PCT FREQ NH <5/8: 46.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
7.1	10.7	10.7	7.1	10.7	3.6	14.3	14.3	7.1	14.3
									28

MARCH

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966AREA 0011 SOUTH CENTRAL JAVA
7.75 110.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	3.1	
	TOT %	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	
2<5	PCP	2.3	.0	.0	.0	.0	.0	.0	.8	.0	.0	3.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
	TOT %	2.3	.0	.0	.0	.0	.0	.0	.8	.0	.0	6.3	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.3	.0	3.1	.0	.0	.0	.0	.8	.0	.0	6.3	
	TOT %	2.3	.0	3.1	.0	.0	.0	.0	.8	.0	.0	6.3	
10+	PCP	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	3.1	
	NO PCP	.0	.0	12.5	6.3	.0	15.6	18.0	13.3	.0	.0	6.3	71.9
	TOT %	.0	.0	12.5	9.4	.0	15.6	18.0	13.3	.0	.0	6.3	75.0
TOT OBS													
TOT PCT													
		4.7	.0	15.6	9.4	.0	15.6	24.2	21.1	.0	9.4	100.0	32

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	1.2	
	4-10	.4	.0	.6	.0	.0	.0	.0	.7	.0	.0	1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.6	.0	.0	.0	.0	1.3	.0	.6	2.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.6	.6	.0	.6	1.7	
	4-10	1.3	.6	1.4	.0	.0	.0	2.0	1.6	.0	.0	6.9	
	11-21	.0	.0	.0	.0	.0	.0	.6	.9	.0	.0	2.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	.6	1.4	.0	.0	.6	3.5	3.0	.0	.6	11.0	
10+	0-3	1.4	1.7	.6	1.4	3.2	1.7	2.6	1.2	.0	5.8	19.7	
	4-10	5.2	3.2	8.4	9.0	2.6	9.8	7.9	10.5	.0	.0	58.6	
	11-21	.0	.0	.3	.3	.0	1.4	3.5	2.0	.0	.0	7.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	6.6	4.9	9.2	10.7	5.8	13.0	14.0	13.7	.0	5.8	83.8	
TOT OBS													
TOT PCT													
		6.4	5.5	11.3	10.7	5.8	13.6	18.6	19.2	.0	6.9	100.0	173

MARCH

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

TABLE 10

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.0E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	12.5	.0	12.5	.0	12.5	.0	.0	.0	.0	.0	37.5	62.5	8
06009	.0	.0	.0	28.6	14.3	14.3	.0	.0	.0	.0	57.1	42.9	7
12015	25.0	.0	.0	.0	12.5	25.0	.0	.0	.0	.0	62.5	37.5	8
18021	20.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	60.0	40.0	5
TOT	4	0	1	2	3	3	2	0	0	0	15	13	28
PCT	14.3	.0	3.6	7.1	10.7	10.7	7.1	.0	.0	.0	53.6	46.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	4.0	.0	8.0	88.0	25
06009	.0	.0	.0	2.1	4.3	93.6	47
12015	2.5	.0	2.5	2.5	7.5	85.0	40
18021	1.6	.0	.0	4.9	19.7	73.8	61
TOT	2	0	2	5	19	145	173
PCT	1.2	.0	1.2	2.9	11.0	83.8	100.0

TABLE 12

CUMULATIVE PCT FREQ RANGES OF VSBY (NM) AND/OR
CEILING HGT NH <5/8 AND/OR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	12.5	25.0	25.0	12.5	62.5	8
06009	.0	.0	28.6	28.6	42.9	7
12015	25.0	25.0	25.0	37.5	37.5	8
18021	20.0	20.0	40.0	20.0	40.0	5
TOT	4	5	8	7	13	28
PCT	14.3	17.9	28.6	25.0	46.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	5.0	.0	.0	1	5.0
85/89	.0	.0	.0	.0	5.0	10.0	5.0	.0	4	20.0
80/84	.0	.0	.0	.0	30.0	45.0	.0	.0	15	75.0
TOTAL	0	0	0	0	1	9	10	0	20	100.0
PCT	.0	.0	.0	.0	5.0	45.0	50.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	.0
80/84	.0	.0	10.0	10.0	.0	10.0	20.0	20.0	.0	5.0
TOTAL	.0	.0	25.0	10.0	.0	20.0	20.0	20.0	.0	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	85	82	78	77	77	81.6	51
06009	91	89	88	84	79	77	77	83.7	108
12015	86	85	85	82	78	77	77	82.0	72
18021	85	84	84	81	78	76	76	80.8	122
TOT	91	88	86	82	78	77	76	82.0	353

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	10.0	.0	.0	76	4
06009	.0	.0	16.7	66.7	16.7	.0	74	6
12015	.0	.0	.0	16.7	83.3	.0	84	6
18021	.0	.0	.0	.0	100.0	.0	83	4
TOT	0	0	1	9	10	0	79	20

PERIOD: (PRIMARY) 1914-1966
(OVER-ALL) 1868-1966

MARCH

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
6	.0	.0	.0	3.3	1	.0	3.3
5	.0	.0	3.3	.0	1	.0	3.3
4	.0	.0	3.3	.0	1	.0	3.3
2	.0	.0	6.7	.0	2	.0	6.7
1	.0	6.7	.0	.0	2	.0	6.7
0	.0	10.0	.0	.0	3	.0	10.0
-1	.0	6.7	3.3	.0	3	.0	10.0
-2	3.3	16.7	.0	.0	6	.0	20.0
-3	.0	16.7	.0	.0	5	.0	16.7
-4	.0	13.3	.0	.0	4	.0	13.3
-5	6.7	.0	.0	.0	2	.0	6.7
TOTAL	3	21	5	1	30	0	30
PCT	10.0	70.0	16.7	3.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1966

MARCH

AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.0E

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	14.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	14.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	28.6

MGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	14.3	.0	.0	.0	.0	14.3	.0	.0	28.6	.0	.0	.0	.0	28.6	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	14.3	14.3	14.3	.0	.0	.0	.0	42.9	.0	.0	28.6	.0	.0	.0	.0	28.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.3	14.3	.0	.0	.0	.0	28.6	
1-2	.0	28.6	.0	.0	.0	.0	28.6	
3-4	.0	.0	42.9	.0	.0	.0	42.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.3	42.9	42.9	.0	.0	.0	100.0	7

PERIOD: (OVER-ALL) 1950-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGT
<6	10.5	.0	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
6-7	.0	.0	10.5	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.0	.0	5.3	5.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	26.3	5.3	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	7	1	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PCT	36.8	5.3	31.6	15.8	5.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1895-1967

APRIL

AREA 0011 SOUTH CENTRAL JAYA
7.85 110.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
E	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	13.8	7.5	.0	.0	.0 76.3
SE	10.8	13.5	.0	.0	.0	.0	.0	24.3	.0	6.8	2.7	.0	.0	.0 71.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
TOT PCT	3.8	5.8	.0	.0	.0	.0	.0	9.6	.0	7.7	3.8	.0	.0	.0 80.8
TOT OBS	52													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	7.7	7.7	.0	.0	.0	.0	.0	13.4	.0	.0	.0	.0	.0	.0 84.6
06009	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	.0	9.1	.0	.0	.0 81.8
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	9.1	.0	.0 81.8
18021	5.0	5.0	.0	.0	.0	.0	.0	10.0	.0	20.0	.0	.0	.0	.0 75.0
TOT PCT	3.6	5.5	.0	.0	.0	.0	.0	9.1	.0	9.1	3.6	.0	.0	.0 80.0
TOT OBS	55													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	1.2	3.7	.5	.0	.0	.0	5.4	5.9	12.0	.0	4.1	1.6	2.3	.0	5.8	6.9	
NE	1.1	3.9	1.0	.0	.0	.0	6.0	7.0	14.0	.0	5.8	.8	6.4	.0	4.3	4.2	
E	1.9	16.9	12.2	.2	.0	.0	31.2	9.8	33.3	50.0	34.9	27.8	23.8	25.0	33.5	33.3	
SE	2.2	19.5	10.2	.7	.0	.0	32.6	9.4	17.7	50.0	31.4	42.1	39.5	75.0	32.0	31.9	
S	1.1	3.0	.2	.1	.0	.0	4.5	6.1	5.0	.0	4.7	7.1	6.7	.0	1.2	2.8	
SW	.5	3.5	.6	.0	.0	.0	4.7	8.0	2.0	.0	3.5	11.1	9.6	.0	2.1	.7	
W	1.5	3.4	.4	.0	.0	.0	5.3	6.0	6.0	.0	4.1	4.0	6.4	.0	7.6	3.5	
NW	1.8	2.8	.4	.0	.0	.0	5.0	5.7	7.3	.0	4.7	4.0	2.9	.0	4.9	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.3						5.3	.0	2.7	.0	7.0	1.6	2.3	.0	8.5	9.7	
TOT OBS	78	266	120	5	0	0	469	8.1	75	3	86	63	86	2	82	72	
TOT PCT	16.6	56.7	25.6	1.1	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	3.6	1.8	.0	.0	.0		5.4	5.9	11.5	3.0	2.3	6.3		
NE	3.1	2.8	.0	.0	.0		6.0	7.0	13.5	3.7	6.3	4.2		
E	9.2	19.5	2.3	.2	.0		31.2	9.8	34.0	31.9	23.9	33.4		
SE	11.1	18.1	3.2	.2	.0		32.6	9.4	18.9	35.9	40.3	32.0		
S	3.0	1.2	.2	.0	.0		4.5	6.1	4.8	5.7	6.7	1.9		
SW	1.6	2.9	.2	.0	.0		4.7	8.0	1.9	6.7	9.6	1.5		
W	3.2	2.1	.0	.0	.0		5.3	6.0	5.8	4.0	6.3	3.7		
NW	3.2	1.8	.0	.0	.0		5.0	5.7	7.1	4.4	2.8	5.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.3						5.3	.0	2.6	4.7	2.3	9.1		
TOT OBS	204	235	28	2	0	469		8.1	78	149	88	154		
TOT PCT	43.5	50.1	6.0	.4	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1859-1967

APRIL

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	2.6	16.7	59.0	21.8	.0	.0	.0	.0	7.5	100.0	78
0600Z	4.7	10.7	57.0	26.8	.7	.0	.0	.0	6.2	100.0	149
1200Z	2.3	10.2	59.1	26.1	2.3	.0	.0	.0	6.7	100.0	154
1800Z	9.1	9.7	53.9	26.0	1.3	.0	.0	.0	8.0	100.0	154
TOT	29	53	266	120	5	.0	.0	.0	8.1		469
PCT	5.3	11.3	56.7	25.6	1.1	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	3.1		8.0
NE	.0	.0	.0	2.1		8.0
E	20.8	3.1	8.3	7.3		3.3
SE	.0	13.5	22.9	1.0		5.1
S	.0	.0	5.2	3.1		6.7
SW	.0	.0	1.0	.0		6.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	8.3	.0	.0	.0		1.0
TOT OBS	7	4	9	4	24	4.3
TOT PCT	29.2	16.7	37.5	16.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL ANY HGT	TOTAL OBS
	149	290	599	999	1999	3499	4999	6499	7999	8000+			
N	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	7.3	.0	.0	.0	.0	.0	.0	32.3	.0
SE	.0	.0	.0	.0	2.1	4.2	1.0	.0	.0	.0	.0	30.2	.0
S	.0	.0	.0	.0	2.1	3.1	3.1	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0
TOT PCT	.0	.0	4.2	.0	12.5	8.3	4.2	.0	.0	.0	.0	70.8	24

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR				OR >0
	>10	>5	>2	>1	>1/2	>1/4	>50FT		
>6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.0	.0	.0	.0	.0	.0	.0	.0
>2000	4.0	4.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
>1000	16.0	16.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
>600	16.0	16.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
>300	20.0	20.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
>150	20.0	20.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
>0	20.0	20.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
TOTAL	5	5	7	7	7	7	7	7	7

TOTAL NUMBER OF OBS: 25

PCT FREQ NH <5/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.2	7.7	11.5	26.9	7.7	7.7	7.7	3.8	7.7	.0	26

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

APRIL

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.9	
	NO PCP	1.0	1.0	.0	.5	1.4	.0	.0	.0	.0	.0	3.8	
	TOT %	1.0	1.0	.0	2.4	1.4	.0	.0	.0	.0	.0	5.8	
5<10	PCP	.0	.0	1.0	6.7	.0	.0	.0	.0	.0	.0	7.7	
	NO PCP	.0	.0	15.9	7.2	.0	.0	.0	1.9	.0	.0	25.0	
	TOT %	.0	.0	16.2	13.9	.0	.0	.0	1.9	.0	.0	32.7	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.4	2.9	21.6	19.2	2.4	1.9	3.4	.0	.0	9.6	61.5	
	TOT %	1.4	2.9	21.6	19.2	2.4	1.9	3.4	.0	.0	9.6	61.5	
TOT OBS													52
TOT PCT		2.4	3.8	38.5	35.6	3.8	1.9	3.4	1.9	.0	9.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.4	.0	.0	.1	.3	.0	.2	.2	.0	.0	1.2	
	4-10	.2	.2	.0	.4	.0	.0	.6	.2	.0	.0	1.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.2	.0	.5	.3	.0	.8	.4	.0	.0	2.7	
5<10	0-3	.2	.0	.2	.2	.0	.0	.4	.2	.0	.4	1.6	
	4-10	.8	.0	1.6	1.2	.0	.0	.6	.6	.0	.0	4.7	
	11-21	.0	.0	2.8	2.6	.0	.0	.2	.2	.0	.0	5.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	.0	4.6	4.0	.0	.0	1.2	1.0	.0	.4	12.2	
10+	0-3	.6	.8	1.2	.8	1.2	.6	.4	1.2	.0	5.9	12.5	
	4-10	3.7	3.8	13.6	13.9	2.5	5.3	3.2	2.5	.0	.0	32.5	
	11-21	.3	.5	10.2	7.1	.0	1.2	.6	.2	.0	.0	20.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	4.6	5.1	27.0	23.7	3.6	7.1	4.2	3.9	.0	5.9	65.1	
TOT OBS													255
TOT PCT		6.2	5.3	31.6	28.2	3.9	7.1	6.2	5.3	.0	6.3	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

TABLE 10

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1FPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	28.6	14.3	14.3	.0	.0	.0	57.1	42.9	7
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
12015	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	16.7	83.3	6
18021	.0	.0	11.1	.0	11.1	.0	.0	.0	.0	.0	22.2	77.8	9
TOT	0	0	1	0	3	2	1	0	0	0	7	19	26
PCT	.0	.0	3.8	.0	11.5	7.7	3.8	.0	.0	.0	26.9	73.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	6.8	9.1	84.1	44
06009	.0	.0	.0	.0	7.2	92.8	69
12015	.0	.0	.0	2.0	15.7	82.4	51
18021	.0	.0	.0	3.2	14.9	81.9	94
TOT	0	0	0	7	31	220	258
PCT	.0	.0	.0	2.7	12.0	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	28.6	28.6	42.9	7
06009	.0	.0	.0	.0	100.0	4
12015	.0	.0	.0	16.7	83.3	6
18021	.0	12.5	12.5	12.5	75.0	8
TOT	0	1	3	4	18	25
PCT	.0	4.0	12.0	16.0	72.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	12.9	3.2	.0	5	16.1
80/84	.0	.0	0	.0	3.2	25.8	45.2	9.7	26	83.9
TOTAL	0	0	0	0	1	12	15	3	31	100.0
PCT	.0	.0	.0	.0	3.2	38.7	48.4	9.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	3.2	9.7	.0	.0	.0	.0	.0	3.2
80/84	2.4	4.8	45.2	17.7	4.0	.0	.0	3.2	.0	6.5
TOTAL	2.4	4.8	48.4	27.4	4.0	.0	.0	3.2	.0	9.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	84	82	77	76	76	81.7	78
06009	92	91	88	84	81	79	78	84.2	144
12015	88	86	86	83	81	79	79	82.9	87
18021	85	84	84	82	78	77	77	81.4	154
TOT	92	89	87	82	79	77	76	82.6	463

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	25.0	62.5	12.5	83			8
06009	.0	.0	14.3	71.4	14.3	.0	74			7
12015	.0	.0	.0	57.1	28.6	14.3	81			7
18021	.0	.0	.0	18.2	63.6	18.2	86			11
TOT	0	0	1	13	15	4	81			33

APRIL

PERIOD: (PRIMARY) 1914-1967
(OVER-ALL) 1855-1967

TABLE 17

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	% FOG	WD FOG
4	.0	.0	2.1	1	.0	2.1
3	.0	.0	2.1	1	.0	2.1
2	.0	6.3	4.2	9	2.1	8.3
1	.0	6.3	2.1	4	.0	8.3
0	4.2	20.8	2.1	13	2.1	25.0
-1	2.1	8.3	.0	5	.0	10.4
-2	4.2	14.6	.0	9	.0	18.8
-3	.0	4.2	.0	2	.0	4.2
-4	4.2	4.2	.0	4	.0	8.3
-5	2.1	4.2	.0	3	.0	6.3
-6	2.1	.0	.0	1	.0	2.1
TOTAL	9		6		2	46
PCT	18.8	68.8	12.5	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	2.1	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	2.1	.0	.0	.0	.0	2.1

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	8.3
3-4	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	8.3	8.3	.0	.0	.0	.0	16.7	.0	.0	8.3	.0	.0	.0	.0	8.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	41.7	.0	.0	.0	.0	50.0	.0	.0	16.7	.0	.0	.0	.0	16.7

PERIOD: (OVER-ALL) 1963-1967

APRIL

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.3	.0	.0	.0	.0	6.3	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	.0	.0	.0	.0	6.3	.0	2.1	.0	.0	.0	.0	2.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	91.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.3	.0	.0	.0	.0	.0	8.3	
1-2	.0	16.7	8.3	.0	.0	.0	25.0	
3-4	.0	.0	41.7	.0	.0	.0	41.7	
5-6	.0	8.3	16.7	.0	.0	.0	25.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	25.0	66.7	.0	.0	.0	100.0	12

PERIOD: (OVER-ALL) 1950-1967

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.5	22.7	13.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
6-7	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
8-9	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
10-11	.0	.0	.0	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDEX	22.7	9.1	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
TOTAL	5	4	7	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
PCT	22.7	18.2	31.8	22.7	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1955-1969

MAY

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	96.6
SE	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	8.7	.0	.0	.0	.0	91.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	50.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	100.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.4	3.7	.0	.0	.0	.0	.0	11.1	.0	7.4	.0	.0	.0	.0	85.2
TOT OBS:	27														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN CHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	10.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0	.0	80.0
00009	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	16.7	.0	.0	.0	.0	83.3
12015	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT TOT OBS:	7.1 28	3.6	.0	.0	.0	.0	.0	10.7	.0	7.1	.0	.0	.0	.0	85.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.8	1.7	.3	.0	.0	.0		2.9	6.2	1.5	.0	2.2	.0	2.7	25.0	3.2	5.9	
NE	1.3	4.4	.6	.0	.0	.0		6.2	6.4	12.9	.0	8.2	.7	2.0	.0	5.2	9.9	
E	2.5	19.8	12.7	1.0	.0	.0		36.0	9.5	44.4	75.0	41.8	30.9	25.7	50.0	35.1	36.2	
SE	1.7	18.4	12.9	.9	.0	.0		34.0	10.2	20.2	8.3	24.6	47.1	41.7	25.0	37.7	32.9	
S	.6	5.7	.3	.3	.0	.0		7.0	7.1	3.2	.0	2.2	11.8	12.7	.0	9.1	5.3	
SW	.5	2.1	.1	.0	.0	.0		2.7	6.5	.0	.0	2.6	4.4	6.7	.0	1.3	1.3	
W	.5	1.1	.2	.0	.0	.0		1.8	6.3	1.6	16.7	1.9	.7	3.3	.0	1.3	.7	
NW	.9	2.9	.1	.0	.0	.0		3.9	5.9	11.3	.0	4.5	1.5	1.3	.0	3.2	3.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.5							5.5	.0	4.8	.0	11.9	2.9	4.0	.0	3.9	6.6	
TOT OBS	62	244	119	10	0	0	435	8.5		62	6	67	68	75	4	77	79	
TOT PCT	14.3	54.1	27.4	2.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	1.7	1.1	.0	.0	.0		2.9	6.2	1.5	1.1	3.8	4.6		
NE	3.6	2.6	.0	.0	.0		6.2	6.4	11.8	4.4	1.9	7.5		
E	11.8	21.8	2.2	.2	.0		36.0	9.5	47.1	36.3	26.9	35.6		
SE	9.1	20.7	3.9	.2	.0		34.0	10.2	19.1	35.9	40.8	35.3		
S	4.9	1.5	.3	.2	.0		7.0	7.1	2.9	7.0	12.0	6.2		
SW	1.6	1.0	.1	.0	.0		2.7	6.5	.0	3.5	6.3	1.3		
W	1.2	.5	.1	.0	.0		1.8	6.3	2.9	1.3	3.2	1.0		
NW	2.4	1.5	.0	.0	.0		3.9	5.9	10.3	3.0	1.3	3.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.5						5.5	.0	4.4	7.4	3.8	5.2		
TOT OBS	182	221	29	3	0	435		8.5	68	135	79	133		
TOT PCT	41.8	50.8	6.7	.7	.0		100.0		100.0	100.0	100.0	100.0		

NAV

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

MOUW	CALM	WIND			SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00603	4.4	8.8	58.8	25.0	2.9	.0	.0	8.4	100.0	68	
06030	7.7	10.9	55.1	20.6	1.3	.0	.0	8.0	100.0	135	
12115	3.8	8.9	55.1	20.6	1.3	.0	.0	8.0	100.0	79	
18071	5.2	7.2	59.5	24.8	3.9	.0	.0	8.8	100.0	125	
TOT	24	38	244	119	10	0	0	8.5		435	
PCT	5.5	8.7	56.1	27.4	2.3	.0	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WHD DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	12.5	8.3	.0	.0		2.2
SE	4.2	8.3	16.7	.0		4.1
S	.0	.0	16.7	.0		7.0
SW	.0	4.2	.0	.0		4.0
W	.0	12.5	.0	.0		4.0
NW	.0	16.7	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	1	3	2	0	6	
TOT PCT	16.7	50.0	33.3	.0	100.0	4.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 3/8$ BY WIND DIRECTION

000 149	150 298	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL QBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	20.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	29.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	16.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	4.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	12.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	16.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	100.6	100.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 34/8) AND VSBY (NH)

	CEILING (FEET)	VSBY (NM)							
		= OR ≥10	= OR ≥5	= OR ≥2	= OR ≥1	= OR ≥1/2	= OR ≥1/4	= OR ≥50VD	= OR ≥0
= OR	>6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>2000	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>1000	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>600	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>300	.0	.0	.0	.0	.0	.0	.0	.0
= OR	>150	.0	.0	.0	.0	.0	.0	.0	.0
= OR	> 0	.0	.0	.0	.0	.0	.0	.0	.0
	TOTAL	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBS:

PCT FREQ NH 45/8: 100.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	UNESCO	TOTAL UNES
.0	20.0	50.0	10.0	10.0	.0	.0	.0	10.0	.0	10

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

MAY

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	3.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	3.7	
2<5	PCP	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
	NO PCP	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	3.7	
	TOT %	3.7	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	7.4	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	9.3	1.9	.0	.0	3.7	.0	.0	.0	14.8	
	TOT %	.0	.0	9.3	1.9	.0	.0	3.7	.0	.0	.0	14.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	3.7	
	NO PCP	.0	.0	41.7	17.6	7.4	.9	2.8	.0	.0	.0	70.4	
	TOT %	.0	.0	41.7	17.6	7.4	.9	2.8	3.7	.0	.0	74.1	
TOT OBS													
TOT PCT													
3.7 1.9 54.6 21.3 7.4 .9 6.3 3.7 .0 .0 100.0													

27

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.9	
	4-10	.3	.3	.3	.0	.0	.0	.0	.3	.0	.0	1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.6	.3	.3	.0	.6	.0	.0	.3	.0	.0	3.2	
5<10	0-3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	4-10	.6	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	2.6	
	11-21	.0	.0	2.2	.3	.0	.0	.0	.0	.0	.0	2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	3.2	1.3	.0	.0	.6	.0	.0	.0	5.8	
10+	0-3	1.0	2.9	2.9	3.5	.6	.0	.6	1.3	.0	6.4	19.2	
	4-10	.6	4.2	15.7	12.2	4.8	2.7	1.8	2.9	.0	.0	44.9	
	11-21	.0	.0	11.7	14.6	.0	.0	.0	.0	.0	.0	26.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.6	7.1	30.3	30.3	5.4	2.7	2.4	4.2	.0	6.4	90.4	
TOT OBS													
TOT PCT													
3.8 7.4 34.1 31.9 6.1 2.7 3.0 4.5 .0 6.4 100.0													

156

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

MAY

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	3
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	1
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	1
TOT	0	0	0	0	0	0	0	0	0	0	0	9	9
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	6.9	93.1	29
06009	.0	.0	2.4	2.4	.0	95.2	42
12015	.0	.0	.0	6.7	6.7	86.7	30
18021	.0	.0	.0	3.6	8.9	87.5	56
TOT	0	0	1	5	9	142	157
PCT	.0	.0	.6	3.2	5.7	90.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <90YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	.0	100.0	3
06009	.0	.0	.0	.0	100.0	3
12015	.0	.0	.0	.0	100.0	1
18021	.0	.0	.0	.0	.0	0
TOT	0	0	0	0	7	7
PCT	.0	.0	.0	.0	100.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	22.2	.0	.0	2	22.2
80/84	.0	.0	.0	.0	.0	11.1	55.6	11.1	7	77.8
TOTAL	0	0	0	0	0	3	5	1	9	100.0
PCT	.0	.0	.0	.0	.0	33.3	55.6	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	11.1	.0	2.8	8.3	.0	.0	.0
.0	.0	36.1	8.3	22.2	.0	.0	11.1	.0	.0
.0	.0	36.1	19.4	22.2	2.8	8.3	11.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	85	82	78	75	75	81.6	66
06009	90	89	87	83	80	79	79	83.4	125
12015	85	84	84	8	80	77	77	81.9	73
18021	85	84	83		77	76	75	80.7	148
TOT	90	88	86	82	79	76	75	81.9	412

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	75.0	25.0	88	4
06009	.0	.0	.0	.0	100.0	.0	.0	.0	74	3
12015	.0	.0	.0	.0	100.0	.0	.0	.0	75	1
18021	.0	.0	.0	.0	.0	100.0	.0	.0	87	2
TOT	0	0	0	0	4	5	1	82	10	

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1855-1969

MAY

TABLE 17

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	# FOG	WD FOG
1	.0	.0	3.6	1	.0	3.6
0	14.3	3.6	7.1	7	.0	25.0
-1	.0	7.1	.0	2	.0	7.1
-2	3.6	17.9	.0	6	.0	21.4
-3	.0	10.7	.0	3	.0	10.7
-4	.0	21.4	3.6	7	.0	25.0
-5	3.6	3.6	.0	2	.0	7.1
TOTAL	6	18	4	20	0	28
PCT	21.4	64.3	14.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	15.0	.0	.0	.0	15.0	.0	.0	20.0	.0	.0	.0	20.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	15.0	.0	.0	.0	15.0	.0	.0	25.0	.0	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1969

MAY

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	5.0	.0	.0	.0	.0		5.0
1-2	.0	20.0	.0	.0	.0	.0		20.0	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	20.0	.0	.0	.0	.0		20.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	40.0	.0	.0	.0	.0		40.0	.0	5.0	.0	.0	.0	.0		5.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	15.0	.0	.0	.0	.0		15.0	.0	.0	.0	.0	.0	.0		.0	.0
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	.0	15.0	.0	.0	.0	.0		15.0	.0	.0	.0	.0	.0	.0		.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	20.0	.0	.0	.0	.0	20.0	
1-2	.0	20.0	.0	.0	.0	.0	20.0	
3-4	.0	.0	20.0	.0	.0	.0	20.0	
5-6	.0	20.0	20.0	.0	.0	.0	40.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	60.0	40.0	.0	.0	.0	100.0	5

PERIOD: (OVER-ALL) 1953-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	:	
<6	16.7	16.7	16.7	16.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
6-7	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3
PCT	16.7	16.7	16.7	50.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

JUNE

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	97.8
TOT OBS:	48													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	91.7
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18021	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	90.0
TOT PCT	2.1	.0	.0	.0	.0	.0	.0	2.1	2.1	.0	.0	.0	.0	93.8
TOT OBS:	48													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.5	.3	.3	.0	.0	.0		1.1	6.7	1.0	.0	1.6	.0	1.5	.0	.0	2.3
NE	.3	1.2	.3	.0	.0	.0		2.7	6.7	5.8	.0	2.4	1.9	1.5	.0	4.5	6.9
E	2.4	22.4	17.1	.4	.0	.0		42.3	10.3	53.4	30.0	48.8	31.7	35.6	50.0	43.9	43.1
SE	2.4	17.9	17.5	.4	.0	.0		39.2	10.9	26.4	30.3	33.7	49.0	45.6	33.3	38.1	35.4
S	.4	3.0	.5	.0	.0	.0		4.0	7.3	1.0	.0	2.4	6.7	5.1	16.7	3.7	3.8
SW	.4	1.9	.3	.0	.0	.0		2.3	6.6	.0	20.0	1.6	6.7	4.4	.0	.0	1.5
W	.1	.9	.7	.0	.0	.0		1.7	10.0	.0	.0	2.4	1.9	2.9	.0	1.5	1.5
NW	.4	2.0	.1	.0	.0	.0		2.3	7.1	8.7	.0	4.0	.0	.0	.0	1.5	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0	3.8	.0	3.2	1.9	4.4	.0	7.5	3.1
TOT OBS	41	195	139	3	0	0	378		9.7	52	5	63	32	68	6	67	65
TOT PCT	10.8	51.6	36.8	.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.8	.0	.3	.0	.0	1.1	6.7	.9	.9	1.4	1.1
NE	2.1	1.6	.0	.0	.0	3.7	6.7	5.3	2.2	1.4	5.7
E	9.7	26.7	6.0	.0	.0	42.3	10.3	51.3	41.1	35.8	43.2
SE	6.2	25.9	6.2	.0	.0	39.2	10.9	28.5	40.7	44.6	36.7
S	1.9	2.1	.0	.0	.0	4.0	7.3	.9	4.3	6.1	3.8
SW	1.6	.9	.0	.0	.0	2.3	6.6	1.8	3.9	4.1	.8
W	.1	1.5	.1	.0	.0	1.7	10.0	.0	2.2	2.7	1.5
NW	1.2	1.2	.1	.0	.0	2.3	7.1	7.9	2.2	.0	1.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0					4.0	.0	2.5	2.6	4.1	5.3
TOT OBS	104	226			378		9.7	57	115	74	132
TOT PCT	27.5	59.1			100.0			100.0	100.0	100.0	100.0

JUNE

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MUJR	CALN	1-3	4-10	11-21	WIND SPEED (KNOTS) 22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00000	3.5	5.5	43.9	45.6	0	0	0	10.5	100.0	57
00000	2.6	1.4	39.1	39.9	0	0	0	8.9	100.0	115
12015	4.1	0.8	48.6	40.5	0	0	0	10.1	100.0	74
18021	3.3	5.3	50.0	39.4	0	0	0	9.7	100.0	132
TOT	19	26	195	139	3	0	0	9.7		378
PCT	4.0	0.9	51.6	36.8	.5	0	0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & GASCO	TOTAL CBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0
E	22.0	31.5	10.9	.0	64.4	3.3
SE	3.3	7.6	6.5	.0	17.4	4.0
S	.0	.0	.0	.0	.0	.0
SW	.0	.0	4.3	.0	4.3	5.5
W	.0	.0	4.3	.0	4.3	6.0
WNW	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0
WV	8.7	.0	.0	.0	8.7	1.5
TOT CLOUDS	8	9	6	0	23	3.3
TOT PCT	34.8	39.1	26.1	0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM $\geq 4/8$)
AND OCCURRENCE OF NM $\leq 5/8$ BY WIND DIRECTION

[illegible]

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (4M 34/8) AND VSBY (4M)

	CEILING (FEET)	= DR ≥10	= DR ≥5	= DR ≥2	VSBY (NM) = DR ≥1	= DR ≥1/2	= DR ≥1/4	= DR ≥50YD	= DR ≥0
# DR	>6500	.0	.0	.0	.0	.0	.0	.0	.0
# DR	>5000	.0	.0	.0	.0	.0	.0	.0	.0
# DR	>3500	4.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
# DR	>2000	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
# DR	>1000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
# DR	>600	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
# DR	>300	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
# DR	>150	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
# DR	>0	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
TOTAL		4	4	4	4	4	4	4	4

TOTAL NUMBER OF OBS: 23

PCT FREQ NH <5/81 82.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	1	2	3	4	5	6	7	8	OBSC.	TOTAL OBS
7.7	23.1	23.1	7.7	19.2	7.7	3.8	3.8	3.8	.0	26

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969

JUNE

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	2.2	50.0	28.3	4.3	6.9	2.2	.0	.0	4.3	97.8	
	TOT %	.0	2.2	50.0	28.3	4.3	6.9	2.2	.0	.0	4.3	97.8	
TOT OBS													46
TOT PCT		.0	2.2	50.0	30.4	4.3	6.9	2.2	.0	.0	4.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.0	.4	.4	1.4	.0	.7	.0	.0	.0	.0	2.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.4	1.4	.0	.7	.0	.0	.0	.7	3.6	
10+	0-3	.7	.7	1.8	1.8	1.1	.4	.0	.7	.0	4.3	11.4	
	4-10	.4	3.6	21.6	15.2	2.9	3.6	.0	1.1	.0	.0	49.3	
	11-21	.0	.0	16.6	16.3	1.4	.7	.0	.0	.0	.0	39.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.1	4.3	40.0	33.2	6.4	4.6	.7	1.8	.0	4.3	96.4	
TOT OBS													140
TOT PCT		1.1	4.6	40.4	34.6	6.4	5.4	.7	1.8	.0	5.0	100.0	

JUNE

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1969AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	70.0	.0	.0	.0	20.0	80.0	5
06009	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	14.3	85.7	7
12015	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0	90.0	10
18021	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	0	2	1	1	0	0	0	4	21	25
PCT	.0	.0	.0	.0	8.0	4.0	4.0	.0	.0	.0	16.0	84.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	.0	3.8	96.2	26
06009	.0	.0	.0	.0	2.4	97.6	41
12015	.0	.0	.0	.0	.0	100.0	30
18021	.0	.0	.0	.0	8.9	91.1	45
TOT	0	0	0	0	6	136	142
PCT	.0	.0	.0	.0	4.2	95.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	25.0	75.0	4
06009	.0	.0	.0	14.3	85.7	7
12015	.0	.0	.0	11.1	88.9	9
18021	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	4	19	23
PCT	.0	.0	.0	17.4	82.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	5.0	.0	.0	1	5.0
80/84	.0	.0	.0	.0	5.0	25.0	40.0	20.0	18	90.0
75/79	.0	.0	.0	.0	.0	.0	5.0	.0	1	5.0
TOTAL	0	0	0	0	1	6	9	4	20	100.0
PCT	.0	.0	.0	.0	5.0	30.0	45.0	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	53.8	21.3	.0	.0	5.0	.0	.0	10.0
75/79	.0	.0	2.5	2.5	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	61.3	23.8	.0	.0	5.0	.0	.0	10.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	64	80	75	72	72	79.8	56
06009	89	88	56	82	78	76	76	82.1	110
12015	88	87	83	81	76	75	75	80.6	73
18021	85	83	83	80	75	73	72	79.3	131
TOT	89	88	85	81	75	74	72	80.5	370

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	100.0	.0	.0	85	4
06009	.0	.0	.0	33.3	50.0	16.7	.0	.0	81	6
12015	.0	.0	.0	42.9	28.6	28.6	.0	.0	82	7
18021	.0	.0	20.0	20.0	20.0	40.0	.0	.0	82	5
TOT	0	0	1	6	10	5	82	22		

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1877-1965

JUNE

AREA 001 SOUTH CENTRAL JAVA
7.85 110.06

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
3	.0	.0	.0	2.2	1	.0	2.2
2	.0	.0	2.2	.0	1	.0	2.2
0	.0	13.3	15.6	2.2	14	.0	31.1
-1	.0	1.2	20.0	.0	10	.0	22.2
-2	.0	4.4	28.9	.0	14	.0	33.3
-3	.0	.0	2.2	.0	1	.0	2.2
-4	.0	2.2	2.2	.0	2	.0	4.4
-7/-8	2.2	.0	.0	.0	1	.0	2.2
TOTAL	1	10	32	2	45	0	45
PCT	2.2	22.2	71.1	4.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	6.7	6.7	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	13.3	30.0	.0	.0	.0	43.3	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	10.0	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	10.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.7	26.7	40.0	.0	.0	.0	73.3	.0	.0	13.3	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1967

JUNE
TABLE 18 (CONT)

AREA 0011 SOUTH CENTRAL JAVA
7.05 110.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	23.5	11.2	.0	.0	.0	.0	35.3	
1-2	.0	5.9	.0	.0	.0	.0	5.9	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	11.8	29.4	.0	.0	.0	41.2	
7	.0	.0	17.6	.0	.0	.0	17.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	29.4	47.1	.0	.0	.0	100.0	17

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	13.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
6-7	.0	4.3	8.7	4.3	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
8-9	.0	.0	.0	.0	26.1	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	4.3	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	1	6	4	1	7	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	23
PCT	4.3	26.1	17.4	4.3	30.4	8.7	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

JULY

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	2.8	2.8	.0	.0	.0	.0	.0	5.6	.0	2.8	.0	.0	.0	44.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	1.7	.0	.0	.0	.0	.0	3.3	.0	1.7	.0	.0	.0	96.7
TOT OBS:	60													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
0000	.0	11.8	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	88.2
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	90.0
1800	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	94.7
TOT PCT	1.6	3.2	.0	.0	.0	.0	.0	4.8	.0	3.2	.0	.0	.0	93.7
TOT OBS:	63													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.0	.4	.1	.0	.0	.0		.5	7.4		.6	.0	.0	.0	1.3	.0	1.4
NE	.5	2.0	.6	.0	.0	.0		3.1	7.1		6.5	.0	1.9	.0	1.7	.0	4.7
E	.7	21.3	18.2	.7	.3	.0		41.3	10.9		46.3	100.0	46.0	35.7	35.6	50.0	36.5
SE	1.3	26.5	18.9	1.3	.3	.0		48.4	10.8		37.3	.0	47.3	39.7	35.0	50.0	46.0
S	.1	2.8	.4	.0	.0	.0		3.3	6.9		4.3	.0	2.1	4.8	3.8	.0	2.8
SW	.0	.9	.6	.0	.0	.0		1.6	11.2		3.7	.0	1.6	.0	2.5	.0	.7
W	.1	.0	.0	.0	.0	.0		.1	2.0		.0	.0	.0	.0	.0	.0	.0
NW	.1	.7	.0	.0	.0	.0		.8	5.6		1.2	.0	.0	.0	.0	.0	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.0	.0	1.1	.0	.0	1.1	2.7
TOT OBS	18	264	188	10	3	0	483		10.4		81	1	94	63	80	1	89
TOT PCT	3.7	54.7	38.9	2.1	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18
N	.3	.2	.0	.0	.0			.5	7.4		.6	.0	.0	.0	1.3	.0	1.4
NE	1.7	1.4	.0	.0	.0			3.1	7.1		6.5	.0	1.9	.0	1.7	.0	4.7
E	7.2	29.8	3.8	.5	.0			41.3	10.9		46.3	100.0	46.0	35.7	35.6	50.0	36.5
SE	9.2	32.9	7.8	.5	.0			48.4	10.8		37.3	.0	47.3	39.7	35.0	50.0	46.0
S	2.2	1.0	.1	.0	.0			3.3	6.9		4.3	.0	2.1	4.8	3.8	.0	2.8
SW	.8	.1	.6	.0	.0			1.6	11.2		3.7	.0	1.6	.0	2.5	.0	.7
W	.1	.0	.0	.0	.0			.1	2.0		.0	.0	.0	.0	.0	.0	.0
NW	.6	.2	.0	.0	.0			.8	5.6		1.2	.0	.0	.0	.0	.0	3.4
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.0	.0	1.1	.0	.0	1.1	2.7
TOT OBS	111	317	50	5	0	483			10.4		82	157	81	163			
TOT PCT	23.0	65.6	10.4	1.0	.0			100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) .913-1972
(OVER-ALL) 1857-1972

JULY

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.0	4.9	52.4	41.5	1.2	.0	.0	10.1	100.0	82
06009	.6	2.5	54.1	38.9	3.8	.0	.0	10.8	100.0	157
12015	.0	.0	58.0	38.3	2.5	1.2	.0	10.9	100.0	81
18021	1.8	3.7	54.6	38.0	.6	1.2	.0	10.0	100.0	163
TOT	4	14	264	186	10	3	0	10.4		483
PCT	.8	2.9	54.7	38.9	2.1	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.2	.0	4.9	.0		4.8
E	28.0	17.1	7.3	2.4		2.9
SE	12.2	7.3	7.3	4.9		3.9
S	.0	.0	.0	.0		.0
SW	.0	.0	7.3	.0		6.3
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	17	10	11	3	41	3.6
TOT PCT	41.5	24.4	26.8	7.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	3.7
E	.0	.0	.0	2.4	.0	4.9	.0	.0	.0	.0	.0	47.6
SE	.0	.0	.0	.0	.0	2.4	7.3	.0	.0	.0	.0	22.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	4.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	17	10	11	3	4	3	0	0	0	0	32	41
TOT PCT	.0	.0	.0	2.4	2.4	9.8	7.3	.0	.0	.0	78.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
OR >2000	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
OR >1000	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
OR >600	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
OR >300	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
OR >150	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
OR >0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
TOTAL	11	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 44

PCT FREQ NM <5/8: 75.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.7	20.0	26.7	11.1	8.9	15.6	6.7	4.4	.0	43

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

JULY

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	1.7	.0
	NO PCP	.0	.0	17.5	.8	.0	.0	.0	.0	.0	.0	18.3	.0
	TOT %	.0	.0	19.2	.8	.0	.0	.0	.0	.0	.0	20.0	.0
10+	PCP	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	1.7	.0
	NO PCP	.0	4.2	39.2	26.7	0.3	5.0	.0	.0	.0	.0	78.3	.0
	TOT %	.0	4.2	40.8	26.7	0.3	5.0	.0	.0	.0	.0	80.0	.0
TOT OBS													60
TOT PCT		.0	4.2	60.0	27.5	0.3	5.0	.0	.0	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.9	.0
	11-21	.0	.0	5.0	.7	.0	.0	.0	.0	.0	.0	5.7	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	5.7	.9	.0	.0	.0	.0	.0	.0	6.5	.0
10+	0-3	.0	.9	.7	1.1	.0	.0	.2	.2	.0	1.3	4.3	.0
	4-10	.2	3.0	20.2	23.9	2.2	.4	.0	.4	.0	.0	30.4	.0
	11-21	.0	.2	15.9	18.7	.4	1.3	.0	.0	.0	.0	36.5	.0
	22+	.0	.0	.4	1.3	.0	.0	.0	.0	.0	.0	1.7	.0
	TOT %	.2	4.1	37.2	45.0	2.6	1.7	.2	.7	.0	1.3	93.0	.0
TOT OBS													230
TOT PCT		.2	4.1	42.8	46.3	2.6	1.7	.2	.7	.0	1.3	100.0	

JULY

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972AREA 0011 SOUTH CENTRAL JAVA
7.85 110.2E

TABLE 10

PERCENT FREQUENCY OF CRICING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	00 199	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	15.4	7.7	15.4	.0	.0	.0	38.5	61.5	13
06009	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	16.7	83.3	12
12015	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	28.6	71.4	7
18021	.0	.0	.0	8.3	.0	8.3	.0	.0	.0	.0	16.7	83.3	12
TOT	0	0	0	1	2	4	4	0	0	0	11	33	44
PCT	.0	.0	.0	2.3	4.5	9.1	9.1	.0	.0	.0	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	2.2	.0	8.9	88.9	45
06009	.0	.0	.0	.0	2.7	97.3	74
12015	.0	.0	.0	.0	7.5	92.5	40
18021	.0	.0	.0	.0	8.1	91.9	74
TOT	0	0	1	0	15	217	233
PCT	.0	.0	.4	.0	6.4	93.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	38.5	61.5	13
06009	.0	.0	.0	16.7	83.3	12
12015	.0	.0	.0	28.6	71.4	7
18021	.0	.0	8.3	8.3	83.3	12
TOT	0	0	1	10	33	44
PCT	.0	.0	2.3	22.7	75.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	5.9	.0	2.9	.0	3	8.8
80/84	.0	.0	.0	.0	.0	20.6	8.8	.0	10	29.4
75/79	.0	.0	.0	.0	.0	2.9	44.1	11.8	20	58.8
70/74	.0	.0	.0	.0	.0	.0	.0	2.9	1	2.9
TOTAL	0	0	0	0	2	8	19	5	34	100.0
PCT	.0	.0	.0	.0	5.9	23.5	55.9	14.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	2.9	1.5	1.5	.0	2.9	.0	.0	.0	.0
.0	2.9	12.5	11.0	.0	2.9	.0	.0	.0	.0
.0	.0	44.9	14.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0
.0	5.9	58.8	26.5	2.9	5.9	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	84	78	74	72	72	78.2	84
06009	90	89	85	80	76	74	73	80.5	152
12015	83	82	82	78	75	74	74	78.6	7
18021	83	82	82	77	73	73	71	77.5	163
TOT	90	87	84	78	74	73	71	78.7	480

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.3	.0	42.9	28.6	14.3	78	7
06009	.0	.0	22.2	22.2	55.6	.0	76	9
12015	.0	.0	.0	37.5	50.0	12.5	83	8
18021	.0	.0	.0	15.4	61.5	23.1	85	13
TOT	0	1	2	10	19	5	81	37

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1857-1972

JULY

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	W FOG
9/10	.0	.0	.0	.0	.0	2.6	1	.0	2.6
4	.0	.0	5.1	.0	5.1	.0	4	.0	10.3
3	.0	.0	.0	5.1	.0	.0	2	.0	5.1
2	.0	2.6	5.1	5.1	.0	.0	5	.0	12.8
1	.0	.0	5.1	.0	2.6	.0	3	.0	7.7
0	.0	.0	10.3	5.1	.0	.0	6	.0	15.4
-1	.0	2.6	15.4	2.6	.0	.0	8	.0	20.9
-2	2.6	.0	7.7	5.1	.0	.0	6	.0	15.4
-3	.0	.0	5.1	.0	.0	.0	2	.0	5.1
-5	.0	2.6	2.6	.0	.0	.0	2	.0	5.1
TOTAL	1	3	22	9	3	1	43	0	39
PCT	2.6	7.7	56.4	23.1	7.7	2.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	18.8	.0	.0	.0	18.8	.0	.0	31.3	.0	.0	.0	31.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	18.8	.0	.0	.0	18.8	.0	.0	43.8	.0	.0	.0	43.8

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	12.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	25.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	37.5	.0	.0	.0	37.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	25.0	.0	.0	.0	25.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	75.0	.0	.0	.0	75.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	100.0	.0	.0	.0	100.0	.0

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-24	25-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	17.6	5.9	11.8	17.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
6-7	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
8-9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	1	3	1	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	5
PCT	5.9	17.6	5.9	11.8	98.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971AREA 0011 SOUTH CENTRAL JAVA
7.7S 110.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	89.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	.0	.0	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	94.6
TOT OBS:	37														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.5
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
1800	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
TOT PCT TOT OBS:	2.7 37	.0	.0	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	94.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	.0	.9	.0	.0	.0	.0	.0	.9	6.1	1.8	.0	.0	.0	1.3	.0	2.1	.0
NE	.3	1.5	.6	.0	.0	.0	.0	2.4	8.9	3.5	16.7	2.9	.0	.0	.0	5.0	2.3
E	1.4	15.9	15.9	.1	.0	.0	.0	34.4	10.6	41.7	50.0	37.3	33.0	23.3	50.0	29.3	43.0
SE	1.0	23.5	27.9	.9	.0	.0	.0	53.2	11.4	46.1	33.3	48.2	53.8	65.0	50.0	57.1	47.7
S	.6	1.2	2.0	.0	.0	.0	.0	5.9	9.1	4.4	.0	4.3	8.3	9.7	.0	5.0	3.9
SW	.0	.0	.5	.0	.0	.0	.0	.5	16.7	.9	.0	.7	.9	.7	.0	.0	.0
W	.1	.8	.1	.0	.0	.0	.0	1.0	5.6	1.8	.0	3.6	.9	.0	.0	.0	.0
NW	.1	.5	.0	.0	.0	.0	.0	.6	4.4	.0	.0	1.4	.9	.0	.0	.0	1.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	.0	.0	1.4	1.9	.0	.0	1.4	1.6
TOT OBS	18	186	185	4	0	0	393		10.7	57	3	69	53	75	2	70	64
TOT PCT	4.6	47.3	47.1	1.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.6	.3	.0	.0	.0		.9	6.1	1.7	.0	1.3	1.1		
NE	.6	1.7	.1	.0	.0		2.4	8.9	4.2	1.6	.0	3.7		
E	6.5	23.2	4.7	.0	.0		34.4	10.6	42.1	35.5	24.0	35.8		
SE	8.1	36.3	8.8	.0	.0		53.2	11.4	45.4	50.6	44.6	52.6		
S	2.4	2.7	.8	.0	.0		5.9	9.1	4.2	6.1	9.4	4.5		
SW	.0	.1	.4	.0	.0		.5	16.7	.8	.8	.6	.0		
W	.9	.1	.0	.0	.0		1.0	5.6	1.7	2.5	.0	.0		
NW	.6	.0	.0	.0	.0		.6	4.4	.0	1.2	.0	.7		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.0						1.0	.0	.0	1.6	.0	1.5		
TOT OBS	82	253	58	0	0	393		10.7	60	122	77	134		
TOT PCT	20.9	64.4	14.8	.0	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1776-1971

AUGUST

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
0000	.0	5.0	50.0	49.0	.0	.0	.0	10.4	100.0	60
0600	1.6	5.7	42.6	49.2	.8	.0	.0	10.7	100.0	122
1200	.0	.0	45.5	54.5	.0	.0	.0	11.1	100.0	77
1800	1.3	3.0	51.5	41.8	2.2	.0	.0	10.6	100.0	134
TOT	4	14	186	185	4	0	0	10.7		393
PCT	1.0	3.6	47.3	47.1	1.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & NBSCD	TOTAL CBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	.0	.0
NE	.0	.0	4.2	4.2		7.5
E	16.7	7.3	3.1	.0		2.2
SE	25.0	14.6	9.4	4.2		2.8
S	.0	3.1	8.3	.0		5.1
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	10	6	6	2	24	3.3
TOT PCT	41.7	25.0	25.0	8.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	4.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.1
SE	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	49.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	0	0	2	0	0	0	0	0	0	24
TOT PCT	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	91.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.0	.0	.0	.0	.0	.0	.0
>2000	.0	.0	.0	.0	.0	.0	.0	.0
>1000	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
>600	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
>300	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
>150	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
>0	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
TOTAL	1	2	2	2	2	2	2	2

TOTAL NUMBER OF OBS: 24

PCT FREQ NH <5/8: 91.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.7	20.8	33.3	12.5	8.3	4.2	.0	4.2	.0	.0	24

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1976-1971

AUGUST

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	2.7	2.7
	TOT %	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	2.7	2.7
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	2.7	.0	2.7	2.7	.0	.0	.0	.0	.0	8.1	8.1
	TOT %	.0	2.7	.0	2.7	2.7	.0	.0	.0	.0	.0	8.1	8.1
10+	PCP	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	2.7	2.7
	NO PCP	.0	5.4	31.1	42.6	7.4	.0	.0	.0	.0	.0	86.5	86.5
	TOT %	.0	5.4	31.1	45.3	7.4	.0	.0	.0	.0	.0	89.2	89.2
TOT OBS		.0	8.1	31.1	50.7	10.1	.0	.0	.0	.0	.0	100.0	37
TOT PCT		.0	8.1	31.1	50.7	10.1	.0	.0	.0	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.5
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	1.0	1.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.5
	4-10	.0	.5	.5	2.2	.5	.0	.0	.0	.0	.0	3.6	3.6
	11-21	.0	.0	.0	2.7	.3	.3	.0	.0	.0	.0	3.3	3.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.5	.5	4.9	.8	.3	.0	.0	.0	.5	7.7	7.7
10+	0-3	.0	.5	2.2	.0	.0	.0	.0	.0	.0	.0	2.7	2.7
	4-10	.0	1.6	20.8	25.0	2.9	.0	.0	.0	.0	.0	50.3	50.3
	11-21	.0	.5	14.8	21.3	1.4	.3	.0	.0	.0	.0	38.3	38.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	2.7	37.7	46.3	4.2	.3	.0	.0	.0	.0	91.3	91.3
TOT OBS		.0	3.3	38.8	51.8	5.1	.5	.0	.0	.0	.5	100.0	103
TOT PCT		.0	3.3	38.8	51.8	5.1	.5	.0	.0	.0	.5	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
18021	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	0	0	2	0	0	0	0	0	2	22	24
PCT	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	8.3	91.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	3.6	.0	96.4	28
06009	.0	.0	.0	1.8	7.0	91.2	57
12015	.0	.0	.0	.0	7.9	92.1	38
18021	.0	.0	.0	.0	11.5	88.5	61
TOT	0	0	0	2	14	168	184
PCT	.0	.0	.0	1.1	7.6	91.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	20.0	80.0	5
06009	.0	.0	11.1	.0	88.9	9
12015	.0	.0	.0	.0	100.0	5
18021	.0	.0	.0	20.0	80.0	5
TOT	0	0	1	2	21	24
PCT	.0	.0	4.2	8.3	87.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	4.8	4.8	.0	.0	2	9.5
80/84	.0	.0	.0	.0	4.8	9.5	14.3	.0	6	28.6
75/79	.0	.0	.0	.0	.0	4.8	33.3	9.5	10	47.6
70/74	.0	.0	.0	.0	.0	.0	4.8	9.5	3	14.3
TOTAL	0	0	0	0	2	4	11	4	21	100.0
PCT	.0	.0	.0	.0	9.5	19.0	52.4	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0
.0	4.8	8.3	10.7	4.8	.0	.0	.0	.0	.0
.0	.0	17.9	25.0	4.8	.0	.0	.0	.0	.0
.0	4.8	.0	1.2	8.3	.0	.0	.0	.0	.0
.0	9.5	26.2	46.4	17.9	.0	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	82	82	78	74	72	72	77.5	60
06009	87	86	85	80	75	74	74	79.8	119
12015	83	82	82	78	74	72	72	77.9	77
18021	83	82	80	77	73	73	72	76.9	134
TOT	87	85	83	78	74	73	72	78.1	390

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	75.0	25.0	.0	87	4
06009	.0	.0	28.6	57.1	14.3	.0	.0	.0	73	7
12015	.0	.0	.0	.0	88.7	33.3	.0	.0	89	6
18021	.0	.0	.0	.0	75.0	25.0	.0	.0	89	4
TOT	0	0	2	4	11	4	83	21		

AUGUST

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1876-1971

TABLE 17

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	6.7	2	.0	6.7
4	.0	.0	3.3	.0	.0	1	.0	3.3
3	.0	.0	.0	3.3	.0	1	.0	3.3
2	.0	.0	10.0	10.0	.0	0	.0	20.0
1	.0	3.3	.0	.0	.0	1	.0	3.3
0	3.3	16.7	10.0	3.3	.0	10	.0	33.3
-1	.0	3.3	3.3	.0	.0	2	.0	6.7
-2	.0	3.3	6.7	.0	.0	3	.0	10.0
-4	3.3	6.7	.0	.0	.0	3	.0	10.0
-5	.0	3.3	.0	.0	.0	1	.0	3.3
TOTAL	2	11	10	5	2	30	0	30
PCT	6.7	36.7	33.3	16.7	6.7	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.1	.0	.0	.0	.0	7.1	.0	23.2	.0	.0	.0	.0	23.2
3-4	.0	7.1	7.1	.0	.0	.0	14.3	.0	.0	21.4	.0	.0	.0	21.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	10.7	.0	.0	.0	10.7	.0	.0	3.6	.0	.0	.0	3.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.3	17.9	.0	.0	.0	32.1	.0	23.2	25.0	.0	.0	.0	48.2

PERIOD: (OVER-ALL) 1963-1971

AUGUST

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	14.3	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.6	.0	.0	.0	.0	19.6	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	35.7	.0	.0	.0	.0	35.7	.0
3-4	.0	21.4	28.6	.0	.0	.0	50.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	14.3	.0	.0	.0	14.3	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	57.1	42.9	.0	.0	.0	100.0	14

PERIOD: (OVER-ALL) 1964-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<4	.0	7.1	7.1	21.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
4-7	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
8-9	.0	.0	7.1	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	21.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
18-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	1	2	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5
PCT	.0	7.1	14.3	64.3	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

SEPTEMBER

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	9.1	.0	9.1	.0	.0	.0	.0	18.2	.0	.0	9.1	.0	.0	.0	72.7
SE	1.8	.0	1.8	.0	.0	.0	.0	3.5	7.3	.0	8.8	.0	.0	.0	80.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	93.3	.0	.0	.0	.0	93.3	.0	.0	.0	.0	.0	.0	66.7
W	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	.0	75.0
NW	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	100.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	.0	4.8	.0	.0	.0	.0	9.5	4.8	2.4	7.1	.0	.0	.0	78.6
TOT OBS:	42														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00Z05	.0	.0	8.3	.0	.0	.0	.0	8.3	8.3	.0	18.7	.0	.0	.0	66.7
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	90.0
12Z15	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0	.0	90.0
18Z21	10.0	.0	10.0	.0	.0	.0	.0	20.0	.0	.0	10.0	.0	.0	.0	70.0
TOT PCT TOT OBS:	4.8 42	.0	4.8	.0	.0	.0	.0	9.5	4.8	2.4	7.1	.0	.0	.0	78.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GNT)							
	7-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	.1	.2	.0	.0	.0		.3	11.6	.7	.0	.0	.0	.0	.0	1.2	.0	.0
NE	.3	1.4	.1	.0	.0	.0		1.9	6.8	3.7	.0	2.1	.0	1.6	.0	1.2	2.7	.0
E	1.3	13.7	9.5	.1	.0	.0		24.6	10.0	29.0	20.0	28.1	20.3	22.5	.0	24.1	25.0	.0
SE	1.5	31.7	29.4	.3	.1	.0		63.1	10.7	58.5	60.0	62.3	66.1	64.8	66.7	64.6	62.2	.0
S	.3	4.7	1.1	.0	.1	.0		6.2	8.6	4.4	.0	7.5	11.9	7.7	.0	4.2	3.4	.0
SW	.2	.2	.3	.3	.0	.0		1.1	12.5	3.7	10.0	.0	.0	.0	16.7	.0	2.0	.0
W	.2	.3	.2	.3	.0	.0		1.1	12.1	.0	10.0	.0	.0	1.6	16.7	1.2	2.0	.0
NW	.0	.1	.0	.0	.0	.0		.1	9.0	.0	.0	.0	.0	.5	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.0	.0	.0	1.7	1.1	.0	3.6	2.7	.0
TOT OBS	25	239	187	5	1	0	457		10.2	68	91	5	73	59	91	3	84	74
TOT PCT	5.5	52.3	40.9	1.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GNT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	.0	.3	.0	.0	.0		.3	11.6	.7	.0	.0
NE	.9	1.0	.0	.0	.0		1.9	6.8	3.7	.0	1.6
E	5.0	17.6	2.0	.0	.0		24.6	10.0	28.1	20.3	21.8
SE	10.4	48.0	6.7	.1	.0		63.1	10.7	58.5	60.0	64.9
S	2.3	3.7	.1	.1	.0		6.2	8.6	4.4	.0	7.4
SW	.4	.3	.3	.0	.0		1.1	12.5	3.7	10.0	.5
W	.4	.3	.3	.0	.0		1.1	12.1	.0	10.0	2.1
NW	.0	.1	.0	.0	.0		.1	9.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	.0	.0	1.1
TOT OBS	96	317	43	1	0	457		10.2	73	182	94
TOT PCT	21.0	69.4	9.4	.2	.0		100.0		100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.0	.0	52.1	46.6	1.4	.0	.0	11.0	100.0	73
06009	.8	4.3	55.3	39.4	.0	.0	.0	9.8	100.0	132
12015	1.1	5.3	52.1	40.4	1.1	.0	.0	10.0	100.0	94
18021	3.2	4.4	50.0	39.9	1.9	.0	.0	10.3	100.0	158
TOT	7	18	239	187	5	1	0	10.2		457
PCT	1.5	3.9	52.3	40.9	1.1	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	5.3	.0	.0	.0		2.0
E	8.6	8.6	.0	2.6		3.4
SE	40.8	14.5	15.8	2.6		3.0
S	2.6	.0	.0	.0		2.0
SW	2.6	.0	.0	.0		2.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	11	4	3	1	19	3.0
TOT PCT	57.9	21.1	15.8	5.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
E	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	13.2
SE	.0	.0	.0	.0	.0	5.3	2.6	.0	.0	.0	.0	65.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	0	0	0	1	1	0	0	0	0	19
TOT PCT	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	89.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10	>5	>2	VSBY (NH) >1	>1/2	>1/4	>50VD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>2000	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
>1000	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
>600	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
>300	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
>150	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
>0	5.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
TOTAL	1	2	2	2	2	2	2	2

TOTAL NUMBER OF OBS: 19

PCT FREQ NH <5/8: 89.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
5.0	25.0	35.0	15.0	10.0	5.0	.0	.0	5.0	.0	20

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	2.4	2.4	.0	2.4	1.2	1.2	.0	.0	9.5	.0
	NO PCP	.0	.0	3.6	15.5	.0	.0	.0	.0	.0	.0	19.0	.0
	TOT %	.0	.0	6.0	17.9	.0	2.4	1.2	1.2	.0	.0	28.6	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	4.8	7.1	50.0	1.2	4.8	3.6	.0	.0	.0	71.4	.0
	TOT %	.0	4.8	7.1	50.0	1.2	4.8	3.6	.0	.0	.0	71.4	.0
TOT OBS													42
TOT PCT		.0	4.8	13.1	67.9	1.2	7.1	4.8	1.2	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
5<10	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
	4-10	.0	.3	2.3	2.5	.0	.0	.3	.3	.0	.0	5.6	.0
	11-21	.0	.0	.0	2.5	.0	.5	.0	.0	.0	.0	3.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	2.8	5.1	.0	.5	.3	.3	.0	.0	9.1	.0
10+	0-3	.0	.8	.8	.3	.3	.5	.0	.0	.0	2.5	5.1	.0
	4-10	.3	1.3	14.1	28.0	4.8	.0	.0	.0	.0	.0	48.5	.0
	11-21	.0	.0	7.3	26.3	.5	.3	.0	.0	.0	.0	34.3	.0
	22+	.0	.0	.3	.3	.0	.8	.8	.0	.0	.0	2.0	.0
	TOT %	.3	2.0	22.5	54.8	5.6	1.5	.8	.3	.0	2.5	89.9	.0
TOT OBS													198
TOT PCT		.3	2.3	25.8	60.4	5.6	2.0	1.0	.3	.0	2.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6
12015	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	16.7	83.3	6
18021	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	0	0	1	1	0	0	0	2	18	20
PCT	.0	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	10.0	90.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	13.9	86.1	36
06009	1.9	.0	.0	.0	5.6	92.6	54
12015	.0	.0	.0	.0	7.7	92.3	39
18021	.0	.0	.0	1.4	10.1	88.4	69
TOT	1	0	0	1	18	178	198
PCT	.5	.0	.0	.5	9.1	89.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	.0	100.0	5
06009	.0	.0	.0	.0	100.0	6
12015	.0	.0	.0	20.0	80.0	5
18021	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	2	17	29
PCT	.0	.0	.0	10.5	89.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	8.0	24.0	12.0	.0	11	44.0
75/79	.0	.0	.0	.0	.0	16.0	32.0	8.0	14	56.0
TOTAL	0	0	0	0	2	10	11	2	25	100.0
PCT	.0	.0	.0	.0	8.0	40.0	44.0	8.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	4.0	4.0	32.0	.0	4.0	.0	.0	.0	.0
75/79	.0	.0	10.0	42.0	.0	.0	2.0	2.0	.0	.0
80/84	.0	4.0	14.0	74.0	.0	4.0	2.0	2.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	81	81	78	75	74	74	78.1	72
06009	85	84	84	80	77	76	75	80.1	130
12015	82	81	80	78	75	74	74	77.9	92
18021	82	81	80	77	73	72	72	77.1	159
TOT	85	84	82	78	75	72	72	78.3	453

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	33.3	66.7	.0	.0	83	6
06009	.0	.0	25.0	.0	62.5	12.5	.0	.0	74	8
12015	.0	.0	.0	.0	16.7	86.7	16.7	.0	85	6
18021	.0	.0	.0	.0	40.0	40.0	20.0	.0	86	5
TOT	0	0	2	10	11	2	81	25		

SEPTEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1860-1969

TABLE 17

AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

F T FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	TOT	W FOG	NO FOG
3	.0	.0	3.1	1	.0	3.1
2	.0	3.1	6.3	3	3.1	6.3
1	.0	.0	3.1	1	.0	3.1
0	9.4	12.5	18.8	13	6.3	34.6
-1	.0	12.5	.0	4	.0	12.5
-2	.0	12.5	.0	4	.0	12.5
-3	.0	15.6	.0	5	.0	15.6
-5	.0	3.1	.0	1	.0	3.1
TOTAL	3	19	10	32	9	29
PCT	9.4	59.4	31.3	100.0	9.	90.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	50.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	50.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	50.0	50.0	.0	.0	.0	100.0

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER
TABLE 18 (CONT)AREA 0011 SOUTH CENTRAL JAVA
7.75 110.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	50.0	.0	.0	.0	.0	50.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	50.0	.0	.0	.0	50.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	50.0	50.0	.0	.0	.0	100.0	2

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
6-7	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
8-9	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
10-11	.0	.0	.0	11.1	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
TOTAL	0	3	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4
PCT	.0	33.3	33.3	11.1	22.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1360-1968

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	100.0	.0	.0	.0	.0	.0
E	6.1	6.1	.0	.0	.0	.0	.0	12.1	9.1	.0	.0	.0	.0	.0	78.8
SE	2.5	2.5	.0	.0	.0	.0	.0	5.1	1.3	10.1	.0	.0	.0	.0	83.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	50.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.3	2.6	.0	.0	.0	.0	.0	7.9	2.6	10.5	.0	.0	.0	.0	81.6
TOT OBS:	38														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	80.0
06009	.0	10.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	90.9
18021	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	23.1	.0	.0	.0	.0	69.2
TOT PCT	5.1	2.6	.0	.0	.0	.0	.0	7.7	2.6	10.3	.0	.0	.0	.0	82.1
TOT OBS:	39														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	.5	.0	.0	.0	.0	.8	4.6	2.7	.0	.0	.0	.0	.0	.0	.0	2.7
NE	1.0	2.1	.3	.0	.0	.0	3.3	5.3	8.2	.0	4.9	.0	1.3	.0	1.5	4.5	4.5
E	1.0	12.8	4.4	.0	.0	.0	18.2	8.6	26.8	.0	22.2	12.0	11.7	.0	17.7	20.0	20.0
SE	2.4	39.4	17.4	.1	.0	.0	59.3	9.3	47.7	100.0	51.9	64.8	66.2	100.0	51.5	62.7	62.7
S	1.5	6.9	1.7	.1	.0	.0	10.3	7.4	5.5	.0	11.1	13.0	14.3	.0	10.8	5.5	5.5
SW	1.2	1.7	.1	.0	.0	.0	3.0	5.0	1.8	.0	3.7	7.4	2.6	.0	.0	1.8	1.8
W	.8	.6	.4	.0	.0	.0	1.8	6.5	.5	.0	1.2	2.8	.6	.0	2.4	.0	.0
NW	.3	1.0	.0	.0	.0	.0	1.3	5.2	.9	.0	.0	.0	1.9	.0	2.3	2.7	2.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.8	.0	4.7	.0	1.3	.0	3.1	.0	.0
TOT OBS	41	253	94	1	0	0	389	8.4	55	1	41	54	77	1	65	95	95
TOT PCT	10.5	65.0	24.2	.3	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.6	.1	.0	.0	.0	.8	4.6	2.7	.0	.0	.0	1.3
NE	.6	.8	.0	.0	.0	3.3	5.3	8.2	.0	3.0	1.3	2.9
E	5.5	12.4	.3	.0	.0	18.2	8.6	26.8	.0	11.5	18.8	18.8
SE	13.4	44.2	1.8	.0	.0	59.3	9.3	47.7	100.0	66.7	62.1	62.1
S	5.4	4.4	.5	.0	.0	10.3	7.4	5.5	.0	14.1	8.3	8.3
SW	2.2	.8	.0	.0	.0	3.0	5.0	1.8	.0	2.6	1.3	1.3
W	.9	.9	.0	.0	.0	1.8	6.5	.5	.0	1.9	.6	1.3
NW	1.0	.3	.0	.0	.0	1.3	5.2	.9	.0	1.9	2.3	2.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1					2.1	.0	1.8	.0	1.3	1.7	1.7
TOT OBS	131	248	10	0	0	389	8.4	55	1	41	54	77
TOT PCT	33.7	63.8	2.6	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

OCTOBER

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.8	16.1	60.7	21.4	.0	.0	.0	.0	7.8	100.0	56
06009	3.0	7.4	65.2	23.7	.7	.0	.0	.0	8.4	100.0	135
12015	1.3	3.8	67.9	26.9	.0	.0	.0	.0	8.9	100.0	78
18021	1.7	9.2	65.0	24.2	.0	.0	.0	.0	8.3	100.0	120
TOT	8	33	253	94	1	0	0	0	8.4		389
PCT	2.1	8.5	65.0	24.2	.3	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	4.0		8.0
E	.0	.0	12.0	11.0		7.3
SE	4.0	4.0	24.0	19.0		5.8
S	2.0	4.0	2.0	.0		4.0
SW	2.0	.0	2.0	.0		4.5
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	4.0	8.0	4.0		6.0
TOT OBS	2	3	12	8	25	6.1
TOT PCT	8.0	12.0	48.0	32.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	4.0	.0	8.0	.0	.0	.0	.0	.0	11.0
SE	.0	.0	.0	8.0	4.0	8.0	.0	.0	.0	.0	.0	25.0
S	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	6.0
SW	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	1	0	3	0	4.0	0	0	0	0	12.0	25
TOT PCT	.0	4.0	.0	12.0	4.0	20.0	4.0	.0	.0	.0	56.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10	>5	>2	VSBY (NH)					>50YD	>0
	>10	>5	>2	>1	>1/2	>1/4	>1/8	>1/16		
>6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>2000	19.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
>1000	23.1	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
>600	30.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
>300	30.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
>150	30.8	38.5	38.5	38.5	38.5	42.3	42.3	42.3	42.3	42.3
>0	30.8	38.5	38.5	38.5	38.5	42.3	42.3	42.3	42.3	42.3
TOTAL	8	10	10	10	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 26

PCT FREQ NH <5/8: 57.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	3.7	14.8	14.8	18.5	7.4	14.8	3.7	3.7	18.5	.0	27

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

OCTOBER

AREA 0011 SOUTH CENTRAL JAVA
7.05 110.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	2.6	2.6	.0	.0	.0	.0	.0	.0	5.3	.0
	NO PCP	.0	.0	2.6	11.8	2.6	1.3	.0	.0	.0	.0	18.4	.0
	TOT %	.0	.0	5.3	14.5	2.6	1.3	.0	.0	.0	.0	23.7	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	16.4	37.5	7.9	1.3	.0	.0	.0	10.5	73.7	.0
	TOT %	.0	.0	16.4	37.5	7.9	1.3	.0	.0	.0	10.5	73.7	.0
TOT OBS													38
TOT PCT		.0	2.6	21.7	52.0	10.5	2.6	.0	.0	.0	10.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	1.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	2.0	4.2	1.0	.2	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	2.0	3.4	1.0	.0	.2	.2	.0	2.0	9.8	.0
	4-10	.0	.0	16.8	37.9	4.2	.0	.0	.0	.0	.0	62.7	.0
	11-21	.0	.0	3.2	14.5	1.0	.0	.0	.0	.0	.0	19.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	21.9	55.8	6.6	.0	.0	.0	.0	.0	91.7	.0
TOT OBS													204
TOT PCT		.0	3.9	23.9	60.4	7.6	.7	.5	.5	.0	2.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
00003	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	33.3	66.7	3
06009	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	28.6	71.4	7
12015	.0	.0	.0	11.1	11.1	11.1	.0	.0	.0	.0	33.3	66.7	9
18021	.0	12.5	.0	12.5	.0	25.0	12.5	.0	.0	.0	62.5	37.5	8
TOT	0	1	0	3	1	5	1	0	0	0	11	16	27
PCT	.0	3.7	.0	11.1	3.7	18.5	3.7	.0	.0	.0	40.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	$<1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10+$	TOTAL OBS
00003	.0	.0	.0	.0	6.7	93.3	30
06009	.0	.0	.0	.0	4.6	95.4	65
12015	.0	.0	.0	.0	5.0	95.0	40
18021	.0	1.4	.0	1.4	11.4	85.7	70
TOT	0	1	0	1	15	188	205
PCT	.0	.5	.0	.5	7.3	91.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HRUR (GMT)	<150 $<50YD$	<600 <1	<1000 <5	$1000+$ $AND 5+$	NH $\leq 5/8$ $AND 5+$	TOTAL OBS
00003	.0	.0	33.3	.0	66.7	3
06009	.0	.0	.0	28.6	71.4	7
12015	.0	.0	11.1	22.2	66.7	9
18021	.0	14.3	28.6	42.9	28.6	7
TOT	0	1	4	7	15	26
PCT	.0	3.8	15.4	26.9	57.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	3.1	.0	.0	1	3.1
85/89	.0	.0	.0	.0	.0	.0	.0	3.1	1	3.1
80/84	.0	.0	.0	.0	3.1	25.0	25.0	6.3	19	59.4
75/79	.0	.0	.0	.0	.0	6.3	15.6	12.5	11	34.4
TOTAL	0	0	0	0	1	11	13	7	32	100.0
PCT	.0	.0	.0	.0	3.1	34.4	40.6	21.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
.0	.0	1.6	1.6	.0	.0	.0	.0	.0	.0
.0	.0	10.0	33.6	6.3	.0	.0	.0	.0	9.4
.0	3.1	7	10.9	6.3	3.1	.0	.0	.0	.0
.0	3.1	22.7	46.1	12.5	3.1	.0	.0	.0	12.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	84	82	79	75	74	74	79.0	55
06009	90	87	86	82	78	77	74	81.7	128
12015	84	83	82	80	77	74	74	79.8	77
18021	83	82	81	79	76	74	72	78.6	122
TOT	90	86	84	80	76	74	72	79.9	382

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	66.7	33.3	90	3
06009	.0	.0	11.1	55.6	22.2	11.1	78	9
12015	.0	.0	.0	30.0	60.0	10.0	83	10
18021	.0	.0	.0	36.4	27.3	36.4	86	11
TOT	0	0	1	12	13	7	83	33

OCTOBER

PERIOD: (PRIMARY) 1914-1968
(OVER-ALL) 1860-1968

TABLE 17

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
5	.0	.0	.0	.0	.0	3.1	1	.0	3.1
3	.0	.0	.0	6.3	.0	.0	2	.0	6.3
2	.0	.0	.0	6.3	3.1	.0	3	.0	9.4
0	.0	.0	9.4	9.4	.0	.0	6	.0	18.8
-1	.0	.0	15.6	6.3	.0	.0	7	.0	21.9
-2	.0	.0	6.3	12.5	.0	.0	6	.0	18.8
-3	.0	.0	9.4	.0	.0	.0	3	.0	9.4
-4	.0	.0	.0	3.1	.0	.0	1	.0	3.1
-5	.0	3.1	.0	.0	.0	.0	1	.0	3.1
-6	.0	3.1	.0	.0	.0	.0	1	.0	3.1
-9/-10	3.1	.0	.0	.0	.0	.0	1	.0	3.1
TOTAL	1		13		1		32	0	32
PCT	3.1	6.3	40.6	43.8	3.1	3.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.5	.0	.0	.0	.0	7.5	.0	.0	32.5	.0	.0	.0	.0	32.5	.0
3-4	.0	20.0	25.0	.0	.0	.0	45.0	.0	.0	15.0	.0	.0	.0	.0	15.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	27.5	25.0	.0	.0	.0	52.5	.0	32.5	15.0	.0	.0	.0	.0	47.5	.0

PERIOD: (OVER-ALL) 1963-1968

OCTOBER

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	40.0	.0	.0	.0	.0	40.0	
3-4	.0	20.0	40.0	.0	.0	.0	60.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	80.0	40.0	.0	.0	.0	100.0	10

PERIOD: (OVER-ALL) 1950-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	10.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
6-7	.0	10.0	10.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
8-9	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
TOTAL	4	4	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	20	4
PCT	20.0	20.0	20.0	20.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1898-1966AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FZRN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	8.8	.0	.0	.0	.0	79.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	12.1	13.6	.0	.0	.0	.0	74.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	87.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.5	.0	.0	.0	.0	65.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	85.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	.0	.0	.0	.0	.0	.0	2.2	4.3	15.2	.0	.0	.0	.0	78.3
TOT OBS:	46														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
1200	5.6	.0	.0	.0	.0	.0	.0	5.6	5.6	22.2	.0	.0	.0	.0	66.7
1800	.0	.0	.0	.0	.0	.0	.0	.0	11.1	44.4	.0	.0	.0	.0	44.4
TOT PCT TOT OBS:	2.1 48	.0	.0	.0	.0	.0	.0	2.1	4.2	16.7	.0	.0	.0	.0	77.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.4	.4	.0	.0	.0		2.1	6.8	2.8	.0	.0	.0	2.5	.0	4.6	2.2	
NE	.5	7.8	.3	.0	.0	.0		3.6	5.6	6.6	.0	1.7	.0	1.3	20.0	4.6	6.7	
E	1.3	11.2	1.7	.0	.0	.0		14.1	7.2	20.8	16.7	20.4	7.9	12.8	20.0	7.7	15.7	
SE	3.3	25.5	5.8	.1	.0	.0		34.7	7.9	32.1	33.3	39.6	41.2	35.3	30.0	36.9	24.8	
S	5.1	12.8	1.6	.1	.0	.0		19.7	6.1	11.8	16.7	23.3	28.3	20.0	10.0	17.7	19.4	
SW	2.6	5.3	1.7	.0	.0	.0		9.6	6.8	7.1	33.3	5.8	9.6	11.9	20.0	8.5	11.2	
W	2.3	2.9	1.0	.3	.0	.0		6.8	7.9	5.7	.0	5.8	4.4	8.1	.0	10.8	6.0	
NW	.5	2.7	.9	.0	.0	.0		4.1	7.5	3.8	.0	.0	5.3	5.6	.0	4.6	5.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.4	.0	.0	.0	.0	.0		5.4	.0	9.4	.0	3.3	5.3	2.5	.0	4.6	9.0	
TOT OBS	83	252	52	3	0	0		390	6.8	53	3	60	57	80	5	85	67	
TOT PCT	21.3	64.6	13.3	.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	1.3	.8	.0	.0	.0			2.1	6.8	2.7	.0	2.4
NE	3.2	.1	.3	.0	.0			3.6	5.6	6.3	.9	5.7
E	7.8	5.7	.6	.0	.0			14.1	7.2	20.5	14.3	13.2
SE	13.8	20.1	.9	.0	.0			34.7	7.9	32.1	40.4	35.0
S	12.3	7.0	.4	.0	.0			19.7	6.1	12.1	24.8	19.4
SW	5.6	3.5	.4	.0	.0			9.6	6.8	8.5	7.7	12.4
W	3.7	2.1	1.0	.0	.0			6.8	7.9	5.4	3.1	7.6
NW	2.1	2.1	.0	.0	.0			4.1	7.5	3.8	2.6	5.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	5.4	.0	.0	.0	.0			5.4	.0	8.9	4.3	2.4
TOT OBS	213	141	14	0	0			390	6.8	58	117	85
TOT PCT	55.1	41.3	3.6	.0	.0			100.0		100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	8.9	10.7	67.9	12.5	.0	.0	.0	6.6	100.0	56
06009	4.3	17.9	66.7	9.4	1.7	.0	.0	6.8	100.0	117
12015	2.4	15.3	65.9	16.5	.0	.0	.0	7.1	100.0	85
18021	6.8	16.7	60.6	15.2	.8	.0	.0	6.7	100.0	132
TOT	21	62	252	52	3	0	0	6.8		390
PCT	5.4	15.9	64.6	13.3	.8	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	.0	.0	12.1	.0		6.5
SE	3.2	8.1	18.5	9.7		5.5
S	.0	7.3	11.3	1.6		4.8
SW	3.2	9.6	6.5	1.6		4.5
W	3.2	4.8	3.2	.0		4.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	3	8	16	4	31	5.1
TOT PCT	9.7	25.8	51.6	12.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	8.9
SE	.0	.0	3.2	6.5	.0	.0	.0	.0	.0	.0	.0	29.8
S	.0	.0	.0	.0	.0	3.2	1.6	.0	.0	.0	.0	15.3
SW	.0	.0	.0	.0	.0	4.8	1.2	.0	.0	.0	.0	8.9
W	.0	.0	.0	.0	.0	1.6	1.6	.0	.0	.0	.0	6.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	1	2	0	4	2	0	0	0	0	22
TOT PCT	.0	.0	3.2	6.5	.0	12.9	6.5	.0	.0	.0	71.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
>2000	15.6	15.6	15.6	15.6	18.8	18.8	18.8	18.8
>1000	15.6	15.6	15.6	15.6	18.8	18.8	18.8	18.8
>600	21.9	21.9	21.9	21.9	25.0	25.0	25.0	25.0
>300	21.9	25.0	25.0	25.0	28.1	28.1	28.1	28.1
>150	21.9	25.0	25.0	25.0	28.1	28.1	28.1	28.1
>0	21.9	25.0	25.0	25.0	28.1	28.1	28.1	28.1
TOTAL	7	8	8	8	9	9	9	9

TOTAL NUMBER OF OBS: 32

PCT FREQ NH <5/8: 71.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	2.7	24.3	35.1	8.1	6.1	5.4	6.1	6.1	37

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

NOVEMBER

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.16

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	1.1	3.3	6.5	2.2	.0	.0	.0	.0	.0	13.0	.0
	TOT %	.0	1.1	3.3	6.5	2.2	.0	.0	.0	.0	.0	13.0	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	4.3	13.0	29.3	14.7	15.8	7.6	.0	.0	.0	84.8	.0
	TOT %	.0	4.3	13.0	29.3	14.7	15.8	7.6	.0	.0	.0	84.8	.0
TOT OBS													46
TOT PCT		.0	9.4	18.5	35.9	16.8	15.8	7.6	.0	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.7	.0	.0	.0	.0	.0	.9	.2	.0	.0	1.8	.0
	11-21	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0
	TOT %	.7	.0	.0	.3	.0	.0	1.4	.7	.0	.0	3.2	.0
5<10	0-3	.0	.0	.9	.7	.2	.0	.0	.0	.0	.3	2.3	.0
	4-10	.0	.2	1.1	2.0	1.4	.2	.0	.0	.0	.0	5.0	.0
	11-21	.0	.0	.3	1.4	.0	.3	.0	.0	.0	.0	2.3	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	2.3	4.1	1.6	.7	.0	.0	.0	.3	9.5	.0
10+	0-3	.0	.3	.3	3.8	5.9	2.3	2.7	.3	.0	9.0	21.3	.0
	4-10	.9	3.2	9.3	26.7	12.7	2.9	1.6	.9	.0	.0	58.4	.0
	11-21	.3	.0	.9	2.3	.3	1.9	1.4	.0	.0	.0	7.2	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.4	3.6	10.9	32.8	18.9	7.4	5.7	1.4	.0	9.0	86.9	.0
TOT OBS													221
TOT PCT		2.0	3.8	13.8	37.3	20.5	8.0	7.0	2.0	.0	9.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

ARWA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 10

PERCENT FREQUENCY OF CLIPPING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00Z03	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	28.6	71.4	7
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8
12Z15	.0	.0	7.7	.0	.0	23.1	7.7	.0	.0	.0	38.5	61.5	13
18Z21	.0	.0	.0	14.3	.0	14.3	.0	.0	.0	.0	28.6	71.4	7
TOT	0	0	1	2	0	4	2	0	0	0	9	26	35
PCT	.0	.0	2.9	5.7	.0	11.4	5.7	.0	.0	.0	25.7	74.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00Z03	.0	.0	.0	.0	15.2	84.8	33
06Z09	.0	.0	.0	1.5	10.6	87.9	66
12Z15	.0	2.0	.0	2.0	9.8	86.3	51
18Z21	.0	.0	.0	6.8	5.5	87.7	73
TOT	0	1	0	7	21	194	223
PCT	.0	.4	.0	3.1	9.4	87.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND 5+		OBS
00Z03	.0	.0	16.7	16.7	66.7	6
06Z09	.0	.0	.0	.0	100.0	8
12Z15	.0	18.2	18.2	27.3	94.5	11
18Z21	.0	.0	14.3	14.3	71.4	7
TOT	0	2	4	5	23	32
PCT	.0	6.3	12.5	15.6	71.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.0	2.9	2.9	.0	.0	2	5.9
80/84	.0	.0	.0	.0	11.8	41.2	29.4	2.9	29	85.3
75/79	.0	.0	.0	.0	.0	.0	2.9	2.9	2	5.9
70/74	.0	.0	.0	.0	.0	.0	.0	2.9	1	2.9
TOTAL	0	0	0	0	5	19	11	3	34	100.0
PCT	.0	.0	.0	.0	14.7	44.1	32.4	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	WN	VAR	CALM
85/89	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	.0
80/84	.0	.0	10.3	33.8	9.6	21.3	10.3	.0	.0	.0
75/79	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0
TOT	.0	.0	16.2	42.6	9.6	21.3	10.3	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00Z03	86	85	83	81	78	76	76	80.9	56
06Z09	89	88	86	83	79	76	76	82.7	112
12Z15	86	85	84	81	76	73	73	80.9	83
18Z21	83	82	82	80	78	75	73	80.0	131
TOT	89	86	85	81	78	75	73	81.1	382

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00Z03	.0	.0	14.3	14.3	57.1	14.3	80	7
06Z09	.0	.0	44.4	44.4	11.1	.0	72	9
12Z15	.0	.0	.0	57.1	28.6	14.3	81	14
18Z21	.0	.0	.0	50.0	50.0	.0	78	6
TOT	0	0	5	5	12	3	78	36

NOVEMBER

PERIOD: (PRIMARY) 1915-1966
(OVER-ALL) 1858-1966

TABLE 17

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
5	.0	.0	4.9	.0	2	.0	4.9
3	.0	.0	4.9	.0	2	.0	4.9
2	.0	4.9	7.3	2.4	6	.0	14.6
1	.0	.0	2.4	.0	1	.0	2.4
0	.0	4.9	19.5	.0	10	.0	24.4
-1	.0	4.9	14.6	.0	8	.0	19.5
-2	.0	2.4	12.2	.0	6	.0	14.6
-4	.0	4.9	2.4	.0	3	.0	7.3
-6	2.4	.0	.0	.0	1	.0	2.4
-7/-8	2.4	.0	.0	.0	1	.0	2.4
-9/-10	2.4	.0	.0	.0	1	.0	2.4
TOTAL	3		28		41	0	41
PCT	7.3	22.0	68.3	2.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.4	.0	.0	.0	.0	4.4	.0	30.9	5.9	.0	.0	.0	36.8
3-4	.0	4.4	.0	.0	.0	.0	4.4	.0	7.4	11.8	.0	.0	.0	19.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.8	.0	.0	.0	.0	8.8	.0	38.2	17.6	.0	.0	.0	55.9

PERIOD: (OVER-ALL) 1963-1966

NOVEMBER

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	.0	11.8
3-4	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	4.4	.0	.0	.0	10.3	.0	5.9	13.2	.0	.0	.0	19.1

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.9	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.9	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	5.9	.0	.0	.0	.0	5.9	
1-2	.0	41.2	17.0	.0	.0	.0	58.8	
3-4	.0	11.8	23.5	.0	.0	.0	35.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	58.8	41.2	.0	.0	.0	100.0	17

PERIOD: (OVER-ALL) 1953-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.4	3.7	11.1	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
6-7	.0	.0	7.4	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	.0	7.4	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	.0	3.7	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	14.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
TOTAL	2	1	5	13	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	5
PCT	7.4	3.7	18.5	48.1	22.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.88 109.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	46.7	26.7	.0	.0	.0	.0	.0	73.3	.0	46.7	.0	.0	.0	.0	26.7
SE	15.8	.0	.0	.0	.0	.0	.0	15.8	.0	8.8	.0	.0	.0	.0	77.2
S	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	77.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
TOT PCT	13.2	2.6	2.6	.0	.0	.0	.0	18.4	.0	7.9	.0	.0	.0	.0	78.9
TOT OBS:	38														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG	NO SIG WEA
00003	11.1	11.1	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	77.8
06009	8.3	.0	8.3	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
12015	22.2	.0	.0	.0	.0	.0	.0	22.2	.0	22.2	.0	.0	.0	.0	66.7
18021	25.0	8.3	.0	.0	.0	.0	.0	33.3	.0	16.7	.0	.0	8.3	.0	58.3
TOT PCT TOT OBS:	16.7 42	4.8	2.4	.0	.0	.0	.0	23.8	.0	9.5	.0	.0	2.4	.0	71.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WHD DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-31	34-47	00	03					06	09	12	15	18	21	
N	.5	2.4	.0	.0	.0	.0		2.8	6.3	5.0	.0	.0	.0	4.3	.0	6.1	.0	
NE	.9	.2	.0	.0	.0	.0		1.2	3.4	3.3	.0	.0	.0	1.1	.0	.0	3.2	
E	4.0	4.1	.0	.0	.0	.0		8.1	4.9	10.0	50.0	3.3	3.6	8.0	.0	8.5	11.3	
SE	3.1	11.7	.7	.0	.0	.0		15.4	6.0	8.3	16.7	18.3	14.3	17.6	25.0	20.7	9.7	
S	2.6	8.3	1.4	.0	.0	.0		12.3	6.1	8.3	.0	11.7	17.9	16.0	25.0	12.2	6.5	
SW	2.6	9.6	9.9	2	.0	.0		16.3	7.8	15.8	.0	20.0	30.4	17.0	.0	8.5	12.1	
W	3.7	14.5	4.3	.2	.0	.0		27.7	8.8	26.7	16.7	30.0	28.8	23.4	50.0	30.5	29.8	
NW	2.0	7.3	1.1	.0	.0	.0		10.5	6.8	15.8	16.7	6.7	3.6	6.4	.0	11.0	21.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.7							5.7	.0	6.7	.0	10.0	3.6	6.4	.0	2.4	6.5	
TOT OBS	53	123	35	1	0	0	212		6.7	30	3	30	28	47	2	41	31	
TOT PCT	25.0	58.0	16.5	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	1.4	1.4	.0	.0	.0		2.8	6.5	4.5	.0	4.1	3.5	
NE	.9	.2	.0	.0	.0		1.2	3.4	3.0	.0	1.0	1.4	
E	5.0	3.2	.0	.0	.0		8.1	4.9	13.6	3.4	7.7	9.7	
SE	9.9	5.5	.0	.0	.0		15.4	6.0	9.1	16.4	17.9	16.0	
S	8.3	4.0	.0	.0	.0		12.3	6.1	7.6	14.7	16.3	9.7	
SW	8.7	6.1	1.4	.0	.0		16.3	7.8	14.4	25.0	16.3	10.1	
W	14.0	9.4	4.2	.0	.0		27.7	8.8	25.8	28.4	24.5	30.2	
NW	6.5	3.1	.9	.0	.0		10.5	6.8	15.9	5.2	6.1	15.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.7						5.7	.0	6.1	6.9	6.1	4.2	
TOT OBS	128	70	14	0	0	212		6.7	33	58	49	72	
TOT PCT	60.4	33.0	6.6	.0	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

DECEMBER

AREA 0011 SOUTH CENTRAL JAVA
7.6S 109.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	6.1	18.2	57.6	18.2	.0	.0	.0	.0	6.6	100.0	33
06009	6.9	20.7	48.3	22.4	1.7	.0	.0	.0	7.3	100.0	58
12015	6.1	12.2	65.3	16.3	.0	.0	.0	.0	7.3	100.0	49
18021	4.2	23.6	61.1	11.1	.0	.0	.0	.0	5.9	100.0	72
TOT	12	41	123	35	1	0	0	0	6.7		212
PCT	5.7	19.3	58.0	16.5	.5	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	.0	5.3	5.3	3.9		5.8
SE	.0	.0	21.1	6.6		6.4
S	.0	.0	.0	5.3		8.0
SW	1.3	5.3	.0	1.3		4.3
W	9.2	.0	5.3	13.2		5.6
NW	.0	.0	5.3	1.3		5.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	5.3	5.3		7.5
TOT OBS	2	2	8	7	19	6.1
TOT PCT	10.5	10.5	42.1	36.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY HGT	CEILING NH <5/8	TOTAL OBS
149	299	599	999	1999	3499	6999	8499	7999				
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	3.9	.0	.0	5.3	.0	.0	.0	.0	.0	.0	
.0	.0	1.3	5.3	.0	5.3	.0	.0	.0	.0	.0	.0	
.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	7.9	10.5	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	2	4	2	2	.0	.0	.0	.0	.0	.0	
.0	.0	10.5	21.1	10.5	10.5	.0	.0	.0	.0	.0	.0	
												19
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
OR >1000	15.0	15.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
OR >600	25.0	35.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
OR >300	30.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
OR >150	30.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
OR >0	30.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
TOTAL	6	9	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 20

PCT FREQ NH <5/8: 50.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	18.2	18.2	4.5	9.1	13.6	18.2	4.5	13.6	.0
									22

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

DPCEHNER

AREA 0011 SOUTH CENTRAL JAVA
7.05 109.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	3.9	1.3	.0	.0	5.3	5.3
	TOT %	.0	.0	.0	.0	.0	.0	3.9	1.3	.0	.0	5.3	5.3
5<10	PCP	.0	.0	2.6	5.3	2.6	.0	.0	.0	.0	.0	10.5	10.5
	NO PCP	.0	.0	.0	18.4	7.9	.7	6.6	.7	.0	.0	34.2	34.2
	TOT %	.0	.0	2.6	23.7	10.5	.7	6.6	.7	.0	.0	44.7	44.7
10+	PCP	.0	.0	4.6	.7	.0	.0	.0	.0	.0	2.6	7.9	7.9
	NO PCP	.0	.0	2.6	13.2	1.3	5.9	13.0	2.6	.0	2.6	42.1	42.1
	TOT %	.0	.0	7.2	13.8	1.3	5.9	13.0	2.6	.0	5.3	50.0	50.0
TOT OBS		.0	.0	9.9	37.3	11.8	6.6	24.3	4.6	.0	5.3	100.0	38
TOT PCT		.0	.0	9.9	37.3	11.8	6.6	24.3	4.6	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	1.1	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	1.1	1.1
2<5	0-3	.0	.0	2.7	1.1	.5	.0	.0	.0	.0	.0	4.3	4.3
	4-10	.0	.0	.5	.5	.0	1.1	1.6	1.6	.0	.0	5.3	5.3
	11-21	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	1.1	1.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	3.2	1.6	.5	1.6	2.1	1.6	.0	.0	10.6	10.6
5<10	0-3	.0	.0	.0	1.1	.0	.0	.8	.3	.0	.0	2.1	2.1
	4-10	.0	.0	1.1	7.4	2.1	1.9	2.9	.5	.0	.0	16.0	16.0
	11-21	.0	.0	.0	1.1	2.1	.0	.0	.0	.0	.0	3.2	3.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	1.1	9.6	4.3	1.9	3.7	.8	.0	.0	21.3	21.3
10+	0-3	.0	.0	1.1	2.1	3.2	2.1	2.1	2.1	.0	4.3	17.0	17.0
	4-10	.5	.0	4.3	12.0	7.4	7.4	8.0	2.7	.0	.0	42.6	42.6
	11-21	.0	.0	.0	.0	.0	3.5	4.0	.0	.0	.0	7.4	7.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.0	5.6	14.1	10.6	13.0	14.1	4.8	.0	4.3	67.0	67.0
TOT OBS		.5	.0	9.8	25.3	15.4	17.0	20.0	7.2	.0	4.3	160.0	94
TOT PCT		.5	.0	9.8	25.3	15.4	17.0	20.0	7.2	.0	4.3	160.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1854-1967

AREA 0011 SOUTH CENTRAL JAVA
7.65 109.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	42.9	.0	14.3	.0	.0	.0	.0	57.1	42.9	7
06009	.0	.0	20.0	.0	20.0	.0	.0	.0	.0	.0	40.0	60.0	5
12015	.0	.0	25.0	25.0	.0	25.0	.0	.0	.0	.0	75.0	25.0	4
18021	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
TOT	0	0	2	4	2	2	0	0	0	0	10	11	21
PCT	.0	.0	9.5	19.0	9.5	9.5	.0	.0	.0	.0	47.6	52.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.0	5.9	17.6	23.5	52.9	17
06009	.0	.0	.0	4.0	28.0	68.0	25
12015	.0	.0	.0	8.7	26.1	65.2	23
18021	.0	.0	3.0	12.1	15.2	69.7	33
TOT	0	0	2	10	22	64	98
PCT	.0	.0	2.0	10.2	22.4	65.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	.0	.0	42.9	14.3	42.9	7
06009	.0	25.0	25.0	25.0	50.0	4
12015	.0	25.0	50.0	25.0	25.0	4
18021	.0	.0	20.0	.0	80.0	5
TOT	0	2	7	3	10	20
PCT	.0	10.0	35.0	15.0	50.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.0	5.0	5.0	.0	.0	2	10.0
80/84	.0	.0	.0	.0	15.0	20.0	25.0	.0	12	60.0
75/79	.0	.0	.0	.0	.0	5.0	15.0	10.0	6	30.0
TOTAL	0	0	0	0	4	6	8	2	20	100.0
PCT	.0	.0	.0	.0	20.0	30.0	40.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	5.0	.0	.0	5.0	.0	.0	.0
.0	.0	13.8	16.3	.0	6.3	13.8	5.0	.0	5.0
.0	.0	.0	5.0	5.0	1.3	12.5	1.3	.0	5.0
.0	.0	13.8	26.3	5.0	7.5	31.3	6.3	.0	10.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	54	83	83	80	76	76	76	80.1	34
06009	88	87	87	82	77	75	75	82.4	55
12015	84	83	83	81	77	75	75	80.7	49
18021	84	83	82	80	77	74	74	79.8	76
TOT	88	87	84	81	77	75	74	80.7	214

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	.0	28.6	14.3	42.9	14.3	79	7		
06009	.0	.0	40.0	40.0	20.0	.0	72	5		
12015	.0	.0	.0	40.0	60.0	.0	81	5		
18021	.0	.0	.0	20.0	60.0	20.0	85	5		
TOT	0	0	4	6	10	2	79	22		

PERIOD: (PRIMARY) 1913-1967
(OVER-ALL) 1894-1967

DECEMBER

AREA 0011 SOUTH CENTRAL JAVA
7.05 109.58

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	N FOG	NO FOG
9/10	.0	.0	2.7	1	.0	2.7
4	.0	.0	2.7	1	.0	2.7
3	.0	.0	5.4	2	.0	5.4
1	.0	2.7	.0	1	.0	2.7
0	.0	21.6	2.7	9	.0	24.3
-1	.0	10.8	.0	4	.0	10.8
-2	.0	16.2	.0	6	.0	16.2
-3	18.9	2.7	.0	8	.0	21.6
-4	2.7	2.7	.0	2	.0	5.4
-5	5.4	.0	.0	2	.0	5.4
-7/-8	2.7	.0	.0	1	.0	2.7
TOTAL	12		4	37	0	37
PCT	32.4	56.8	10.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	13.3	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	13.3	.0	.0	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1967

DECEMBER

AREA 0011 SOUTH CENTRAL JAVA
7.65 109.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	6.7	.0	.0	.0	6.7	.0	1.7	8.3	.0	.0	.0	10.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	6.7	.0	.0	.0	6.7	.0	1.7	8.3	.0	.0	.0	10.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	5.0	.0	.0	.0	.0	.0	5.0	1.7	.0	.0	.0	.0	.0	1.7	
1-2	.0	25.0	11.7	.0	.0	.0	36.7	.0	6.7	.0	.0	.0	.0	6.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	25.0	11.7	.0	.0	.0	41.7	1.7	6.7	.0	.0	.0	.0	8.3	86.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	29.4	.0	.0	.0	.0	.0	.0	29.4
1-2	.0	47.1	23.5	.0	.0	.0	.0	70.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	29.4	47.1	23.5	.0	.0	.0	100.0	17

PERIOD: (OVER-ALL) 1963-1967

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.8	14.3	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
6-7	.0	.0	9.5	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	9.5	19.0	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
10-11	.0	.0	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDENT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	3	8	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	4
PCT	4.8	14.3	18.1	33.3	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1954-1973

ANNUAL

AREA 0011 SOUTH CENTRAL JVA
7.85 110.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN CHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	13.3	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	28.3
NE	8.3	.3	.0	.0	.0	.0	.0	8.7	.0	8.3	.0	.0	1.3	.0	73.4
E	6.6	3.8	.8	.0	.0	.0	.0	11.2	2.4	9.6	1.4	.0	.0	.0	79.8
SE	6.5	1.8	.1	.0	.0	.0	.0	8.4	1.7	7.2	1.0	.0	.0	.0	85.8
S	1.2	.5	1.9	.0	.0	.0	.0	3.6	.0	6.3	.0	.0	.9	.0	80.9
SW	1.8	.7	2.8	.0	.0	.0	.0	5.3	.0	7.9	.0	.0	.1	.0	78.3
W	5.8	.4	.3	.0	.0	.0	.0	6.5	8.6	6.3	.0	.0	.0	.0	57.1
NW	10.6	5.7	.4	.0	.0	.0	.0	19.7	2.0	8.3	.0	.0	.4	.0	36.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	1.8	.0	.0	.0	.0	.0	6.3	2.8	2.8	.0	.0	.4	.0	46.1
TOT PCT	5.8	1.9	.8	.0	.0	.0	.0	8.5	2.2	6.5	.9	.0	.3	.0	83.6
TOT OBS:	653														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	3.1	3.0	.9	.0	.0	.0	.0	7.6	2.6	1.9	1.4	.0	.9	.0	85.6
0600	2.8	2.3	.7	.0	.0	.0	.0	5.7	1.8	2.8	.8	.0	.0	.0	90.3
1200	9.5	.6	.2	.0	.0	.0	.0	10.3	.6	10.4	.8	.0	.2	.0	81.1
1800	8.1	2.0	.8	.0	.0	.0	.0	11.0	5.4	13.1	.8	.0	.7	.0	71.9
TOT PCT TOT OBS:	6.1 685	2.2	.7	.0	.0	.0	.0	9.0	2.2	7.0	.9	.0	.5	.0	82.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.0	.2	.0	.0	.0		2.7	6.6	4.3	.0	2.0	.0	1.8	6.3	3.7	3.6	
NE	.8	2.5	.3	.0	.0	.0		3.6	6.1	7.2	6.9	3.4	.5	1.8	1.7	3.7	5.2	
E	1.6	12.6	7.7	.2	*	.0		22.2	8.2	27.5	33.7	25.2	17.3	17.9	20.4	21.3	23.3	
SE	2.1	19.1	11.8	.4	*	.0		33.4	8.6	25.9	30.3	31.9	38.6	38.2	37.9	35.0	30.6	
S	1.5	5.3	.8	.1	*	.0		7.7	6.7	4.6	3.5	6.7	12.7	10.1	8.5	7.3	5.1	
SW	1.4	4.6	1.4	.1	*	.0		7.6	8.6	4.7	6.7	7.5	14.1	10.4	5.8	4.5	5.3	
W	1.9	5.8	3.1	.5	*	.0		11.4	7.9	10.8	11.2	12.2	11.2	11.5	13.9	11.8	11.2	
NW	1.3	3.9	1.1	.1	.0	.0		6.4	6.8	9.9	7.6	5.0	2.6	4.7	5.6	7.1	9.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8							4.8	.0	5.1	.0	6.1	2.4	3.7	.0	5.7	6.4	
TOT OBS							4863		8.4	745	38	851	653	942	32	836	786	
TOT PCT	16.2	55.8	24.5	1.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.8	.9	*	.0	.0	2.7	6.6	4.1	1.5	2.0	3.7	
NE	2.3	1.3	*	.0	.0	3.6	6.1	7.1	2.1	1.8	4.4	
E	6.8	13.7	1.8	.1	.0	22.2	8.2	27.9	21.7	18.1	22.3	
SE	8.8	21.4	3.1	.1	.0	33.4	8.6	26.2	34.9	38.0	32.9	
S	4.8			*	.0	7.7	6.7	4.6	9.4	10.0	6.3	
SW	3.9	3.2	.5	*	*	7.6	8.6	4.9	10.3	10.2	4.9	
W	4.7	4.9	1.6	.2	*	11.4	7.9	10.7	11.8	11.5	11.5	
NW	3.5	2.5	.5	*	.0	6.4	6.8	9.7	4.0	4.8	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8					4.8	.0	4.9	4.4	3.5	6.0	
TOT OBS						4863		8.4	783	1504	974	1802
TOT PCT	41.3	50.5	7.7	.4	*	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.9	12.8	54.7	26.4	1.2	.0	.0	.0	8.2	100.0	783
06009	4.4	12.6	54.8	26.4	1.7	.0	.0	.0	8.4	100.0	1504
12015	3.5	9.8	57.0	28.5	1.0	.2	.0	.0	8.7	100.0	974
18021	6.0	10.1	56.5	25.6	1.4	.3	.0	.0	8.3	100.0	1602
TOT									8.4		4863
PCT	4.8	11.3	55.8	26.3	1.4	.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & NBSCD	TOTAL CFS	MEAN CLOUD COVER
N	.0	.0	.0	.7		1.3
NE	.5	.0	1.2	.9		2.9
E	9.5	7.6	5.5	2.6		3.9
SE	8.0	6.8	11.8	3.8		4.5
S	.8	2.0	3.6	.8		3.5
SW	1.2	3.4	3.8	.5		4.2
W	1.5	4.4	2.7	3.8		3.4
NW	.3	1.5	2.4	2.1		2.4
VAR	.0	.0	.0	.0		.0
CALM	1.4	1.8	1.9	1.1		2.5
TOT OBS					283	4.5
TOT PCT	23.3	27.4	33.0	16.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 34/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.2	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	
NE	.0	.3	.1	.0	.4	.5	.0	.0	.0	.0	1.2	
E	.0	.0	.3	.5	1.4	1.8	.5	.0	.0	.0	20.5	
SE	.0	.0	.4	1.6	1.0	2.4	1.3	.0	.0	.0	23.7	
S	.0	.0	.4	.0	.2	.5	.6	.0	.0	.0	5.6	
SW	.0	.0	.0	.4	.5	.5	.4	.0	.0	.0	7.2	
W	.6	.0	.6	1.0	1.3	1.0	.1	.0	.0	.0	7.8	
NW	.4	.0	.0	.6	.1	.9	.0	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.5	.3	.3	.0	.0	.0	4.6	
TOT OBS											283	
TOT PCT	1.2	.1	2.1	4.6	5.7	7.9	3.2	.0	.0	.0	74.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH 34/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.0	.0	.0	.0	.0	.0	.0
>2000	1.6	2.7	3.3	3.3	3.3	3.3	3.3	3.3
>1000	8.7	9.7	10.7	10.7	11.0	11.0	11.0	11.0
>600	13.4	15.1	16.5	16.5	16.7	16.7	16.7	16.7
>300	16.6	19.5	20.9	20.9	21.1	21.1	21.1	21.1
>150	17.7	21.5	22.9	22.9	23.1	23.1	23.1	23.1
>0	17.7	21.5	23.2	23.2	23.5	23.5	23.5	23.5

TOTAL NUMBER OF OBS: 295

PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
5.5	19.1	23.6	17.9	12.3	7.7	5.9	4.7	6.2	1.2	312

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

ANNUAL

TABLE 8

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5	
1/2<1	PCP	.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.2	.2	.0	.0	.3	.3	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.0	.3	.3	.0	.0	.8	
2<5	PCP	.9	.0	.0	.2	.0	.1	.0	.1	.0	.0	.9	
	NO PCP	.1	.3	.2	.3	.1	.1	.3	.1	.0	.3	1.8	
	TOT %	.6	.3	.2	.4	.1	.2	.3	.2	.0	.3	2.6	
5<10	PCP	.1	.0	.9	1.4	.3	.4	.4	.2	.0	.1	3.8	
	NO PCP	.3	.4	4.8	5.6	1.5	.3	1.4	.6	.0	.3	15.0	
	TOT %	.4	.4	5.7	7.0	1.8	.7	1.7	.7	.0	.3	18.8	
10+	PCP	.0	.0	.5	.5	.0	.2	.3	.5	.0	.4	2.3	
	NO PCP	1.0	2.4	20.1	23.4	4.9	6.8	7.6	4.0	.0	4.2	74.5	
	TOT %	1.0	2.4	20.7	23.9	4.9	7.0	7.9	4.5	.0	4.6	76.9	
TOT OBS													692
TOT PCT		2.7	3.3	26.8	31.5	6.9	7.4	10.9	6.0	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3	
2<5	0-3	.1	.0	.3	.1	.1	.0	.0	.1	.0	.1	.8	
	4-10	.1	.1	.2	.1	.0	.2	.3	.3	.0	.1	1.3	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.4	.3	.1	.3	.4	.4	.0	.1	2.4	
5<10	0-3	.0	.0	.1	.2	.1	.0	.4	.1	.0	.4	1.4	
	4-10	.3	.2	1.1	1.8	.5	.4	.7	.4	.0	.3	3.5	
	11-21	.0	.0	1.0	1.0	.2	.2	.3	.1	.0	.0	2.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.2	2.2	3.0	.8	.8	1.4	.7	.0	.4	9.7	
10+	0-3	.6	.9	1.3	2.0	1.7	1.3	1.7	1.3	.0	4.7	15.5	
	4-10	1.6	2.5	12.8	18.0	4.9	4.0	3.8	3.0	.0	30.6	50.6	
	11-21	.1	.2	6.7	10.1	.4	1.2	1.4	.4	.0	20.8	20.8	
	22+	.0	.0	.1	.1	.0	.1	.1	.1	.0	.0	.4	
	TOT %	2.4	3.6	20.9	30.3	7.0	6.6	7.1	4.9	.0	4.7	87.4	
TOT OBS													2297
TOT PCT		3.0	3.9	23.5	33.7	8.0	7.5	9.0	6.2	.0	5.1	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	1.0	9.2	8.0	7.1	5.3	.0	.0	.0	31.7	68.3	76
06009	.0	.0	1.7	2.4	4.9	4.8	1.4	.0	.0	.0	15.1	84.9	81
12015	2.1	.0	2.7	3.0	2.8	12.2	.6	.0	.0	.0	23.4	76.6	82
18021	1.7	1.0	2.6	2.9	7.0	4.0	7.2	.0	.0	.0	26.4	73.6	67
TOT PCT	1.2	.3	1.9	4.2	5.6	7.4	3.2	.0	.0	.0	23.9	76.1	306 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	1.2	2.6	9.0	87.2	423
06009	.2	.0	.2	1.0	7.3	91.4	673
12015	.2	.2	.2	2.3	11.6	85.5	499
18021	.1	.1	.4	3.3	11.2	84.9	735
TOT PCT	.1	.1	.4	2.3	9.9	87.2	2330 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.0	2.1	13.9	18.7	67.5	73
06009	.0	2.1	5.4	11.5	83.1	80
12015	2.1	5.7	8.7	18.7	75.6	78
18021	1.7	5.6	14.1	15.4	62.2	64
TOT PCT	1.2	3.8	10.4	15.1	74.5	295 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.8	.1	.0	1.2	
85/89	.0	.0	.0	.0	2.8	6.8	1.9	.7	12.0	
80/84	.0	.0	.0	.0	4.4	21.3	30.9	5.7	62.3	
75/79	.0	.7	.0	.0	.0	3.0	13.6	6.2	22.8	
70/74	.0	.0	.0	.0	.0	.0	.4	1.3	1.7	
TOTAL PCT	.0	.0	.0	.0	7.4	31.9	46.9	13.8	403 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.2	.0	.0	.2	.0	.0	.5
.3	.3	2.3	3.7	.1	2.0	2.0	.7	.0	.0
.3	1.5	17.6	16.6	4.8	5.7	7.1	5.0	.0	3.8
.3	.3	7.4	8.6	1.4	.5	2.3	1.0	.0	.9
.0	.4	.0	.3	.9	.0	.0	.0	.0	.0
.9	2.5	27.7	29.4	7.3	8.2	11.6	6.7	.0	5.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	85	84	80	76	74	72	80.0	787
06009	92	88	87	82	78	77	73	82.4	1444
12015	88	84	83	81	77	75	72	80.6	957
18021	85	83	82	80	76	74	71	79.3	1395
TOT	92	87	85	81	77	75	71	80.6	4783

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.2	4.3	21.6	54.9	18.0	84	105		
06009	.0	.0	19.9	52.7	24.1	3.3	76	119		
12015	.0	.0	.0	35.3	49.7	14.9	84	125		
18021	.0	.0	1.7	22.2	60.9	15.2	84	76		
TOT	0	1	31	128	193	72	82	425		

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	7 8	87 8	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.2	2	.0	.4
7/8	.0	.0	.0	.0	.7	3	.0	.7
6	.0	.0	.0	.0	.6	3	.0	.6
5	.0	.0	.0	.4	.3	5	.0	1.1
4	.0	.0	.7	.0	1.4	10	.0	2.1
3	.0	.0	.0	2.2	1.3	17	.0	3.5
2	.0	.2	1.9	3.8	1.7	24	.4	7.2
1	.0	.3	.4	1.9	.9	17	.0	3.6
0	.3	2.2	6.6	13.5	1.7	110	.7	23.4
-1	.0	.5	5.1	8.0	.7	67	.0	14.3
-2	.2	.3	5.0	12.8	.1	86	.0	18.4
-3	.0	.0	4.1	4.3	.2	39	.0	8.6
-4	.3	.6	2.1	6.1	.3	43	.0	9.3
-5	.0	.8	2.0	.9	.0	15	.0	3.6
-6	.0	.5	.2	.1	.0	4	.0	.8
-7/-8	.0	.4	.4	.3	.0	6	.0	1.0
-9/-10	.3	.2	.0	.0	.0	2	.0	.5
TOTAL						463		
PCT	1.0	5.8	28.4	54.1	9.5	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.5	.0	.0	.0	.5	.0	.1	.7	.0	.0	.0	.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	12.5	2.2	.0	.0	.0	14.7
3-4	.0	3.6	5.5	.0	.0	.0	9.1	.0	1.2	5.7	.0	.0	.0	6.9
5-6	.0	1.8	6.0	.0	.0	.0	7.8	.0	.0	8.2	.0	.0	.0	9.2
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.2	13.2	.0	.0	.0	23.0	.0	13.7	17.2	.0	.0	.0	30.9

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0011 SOUTH CENTRAL JAVA
7.85 110.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.4	.0	.0	.0	.0	.0	4.1
1-2	.0	4.4	.6	.0	.0	.0	5.0	.0	.0	2.2	4.2	.0	.0	.0	.0	6.4
3-4	.0	1.2	.4	.0	.0	.0	1.6	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	2.8	.0	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	.9	.0	.0	.0	8.2	.0	.7	5.6	7.2	.0	.0	.0	.0	13.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	2.0	1.3	.0	.0	.0	.0	3.3	.0	.1	.8	.0	.0	.0	.0	.0	.9	
1-2	.0	5.1	1.0	.0	.0	.0	6.1	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
3-4	.0	1.3	1.7	.0	.0	.0	3.0	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	
5-6	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.6	.9	.0	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	7.7	3.1	.8	.0	.0	13.6	.0	.1	2.4	3.3	.8	.0	.0	.0	6.6	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.9	6.4	.0	.0	.0	.0	14.2	
1-2	.0	27.9	8.2	.0	.0	.0	36.1	
3-4	.0	7.3	16.4	.0	.0	.0	23.7	
5-6	.0	3.9	18.0	.8	.0	.0	22.6	
7	.0	.0	2.7	.8	.0	.0	3.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	45.4	45.3	1.9	.0	.0	100.0	136

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	10.6	12.5	6.6	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	3
6-7	.0	1.6	5.7	6.9	3.5	.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	4
8-9	.0	1.1	3.6	4.0	5.5	.8	1.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
10-11	.0	.3	1.1	3.7	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
12-13	.0	.0	1.0	2.4	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	1.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	2
INDEX	5.7	2.5	1.3	1.6	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	4
TOT PCT	9.9	16.1	25.2	26.1	15.5	2.8	2.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

TABLE 20

AREA 0011 SOUTH CENTRAL JAVA
7.8S 110.0E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	3	.1
87/88	1.9	1.6	1.7	.9	.7	.0	.0	.0	.0	.0	.0	.0	24	.3
85/86	7.9	10.7	17.2	15.3	8.7	2.8	.2	.0	.0	1.1	1.9	3.8	293	4.3
83/84	40.6	40.2	42.1	53.6	43.7	20.5	6.9	2.4	.9	3.5	19.5	38.5	1159	25.6
81/82	45.1	33.9	35.0	27.1	34.3	39.9	19.2	7.6	7.4	28.6	52.3	49.5	1363	30.1
79/80	5.1	6.4	5.4	2.2	9.0	18.3	16.1	20.0	20.6	38.0	22.8	8.2	653	14.4
77/78	.0	.7	.6	.9	2.8	8.0	28.1	30.5	39.7	19.9	3.5	.0	547	12.1
75/76	.0	.0	.0	.0	.5	7.2	17.6	24.3	23.0	8.1	.0	.0	326	7.2
73/74	.0	.0	.0	.0	.0	3.3	10.3	12.7	6.3	.8	.0	.0	135	3.0
71/72	.0	.0	.0	.0	.0	.0	1.6	2.4	1.6	.0	.0	.0	22	.5
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	2	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	315	425	349	437	423	381	448	370	431	371	369	208	4527	100.0
MEAN	82.6	82.9	83.0	83.1	82.4	80.6	78.1	77.2	77.3	79.4	81.4	82.1	80.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1010	1008	1011	1010	1009	1009	1011	89
FEB	1011	1010	1010	1008	1010	1010	1009	1009	1010	132
MAR	1010	1011	1009	1008	1009	1010	1009	1009	1009	50
APR	1010	1007	1009	1007	1009	1009	1009	1008	1009	76
MAY	1010	1013	1010	1010	1010	1013	1009	1010	1010	61
JUN	1011	1011	1010	1009	1010	1011	1011	1011	1010	67
JUL	1011	1012	1012	1010	1011	1011	1013	1011	1011	76
AUG	1012	1011	1011	1011	1011	1012	1011	1011	1011	54
SEP	1012	1011	1011	1010	1011	1011	1012	1011	1011	61
OCT	1012	1012	1011	1010	1012	1012	1011	1011	1011	45
NOV	1012	1009	1010	1008	1010	1010	1010	1009	1010	59
DEC	1010	1005	1009	1006	1010	1007	1009	1007	1009	52
ANN	1011	1010	1010	1009	1009	1011	1010	1010	1010	823
OBS	152	37	163	66	172	93	115	85		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1006	1006	1007	1009	1010	1013	1013	1013	1014
FEB	1005	1006	1006	1009	1010	1011	1012	1012	1013
MAR	1005	1005	1006	1008	1009	1010	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1012	1012	1013
MAY	1005	1005	1006	1008	1010	1013	1014	1014	1015
JUN	1005	1005	1007	1009	1010	1012	1013	1013	1014
JUL	1005	1005	1008	1010	1011	1013	1015	1016	1017
AUG	1005	1005	1006	1011	1011	1012	1014	1015	1016
SEP	1006	1006	1008	1010	1011	1012	1014	1015	1016
OCT	1009	1009	1009	1010	1012	1012	1013	1013	1014
NOV	1007	1007	1008	1009	1010	1011	1013	1013	1014
DEC	1003	1003	1004	1007	1009	1010	1012	1012	1013

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 SOUTHEAST JAVA
9.15 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	10.8	.0	.0	.0	.0	.0	.0	21.6	.0	.0	.0	.0	.0	.0	78.4
NE	23.5	35.3	.0	.0	.0	.0	.0	38.8	.0	23.5	.0	.0	.0	.0	41.2
E	16.2	10.8	.0	.0	.0	.0	.0	77.0	10.8	35.1	.0	.0	.0	.0	32.4
SE	9.7	9.7	6.5	.0	.0	.0	.0	25.8	.0	11.3	.0	.0	.0	.0	72.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	86.7
SW	1.9	9.6	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0	88.5
W	4.3	9.1	.0	.0	.0	.0	.0	13.4	1.4	1.4	2.9	.0	.0	.0	80.8
NW	22.8	5.9	.0	.0	.0	.0	.0	78.7	.0	7.9	.0	.0	.0	.0	71.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	9.0	8.4	.6	.0	.0	.0	.6	18.7	1.3	6.5	1.3	.0	.0	.0	75.5
TOT OBS:	155														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00Z03	9.4	11.3	.0	.0	.0	.0	.0	20.8	3.8	1.9	.0	.0	.0	.0	75.5
06Z09	2.3	8.3	2.8	.0	.0	.0	.0	13.9	.0	3.6	2.8	.0	.0	.0	77.8
12Z15	10.6	6.4	.0	.0	.0	.0	2.1	19.1	.0	8.5	.0	.0	.0	.0	74.5
18Z21	18.2	3.0	.0	.0	.0	.0	.0	21.2	.0	15.2	3.0	.0	.0	.0	72.7
TOT PCT	10.1	7.7	.6	.0	.0	.0	.6	18.9	1.2	7.1	1.2	.0	.0	.0	75.1
TOT OBS:	169														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	1.1	.1	.0	.0	.0		2.2	5.4		1.8	4.1	4.5	2.1	1.7	1.2	.0	.3
NE	1.1	.9	.2	.0	.0	.0		2.2	4.3		2.3	2.1	6.8	.4	2.0	3.3	.0	2.6
E	.9	1.7	.0	.0	.0	.0		2.7	4.4		1.6	3.2	2.3	2.5	4.4	2.5	8.3	.7
SE	2.8	4.4	.3	.0	.0	.0		7.5	5.1		6.7	5.9	.0	7.5	10.8	8.3	8.3	7.9
S	2.6	5.1	.9	.1	.0	.0		8.7	6.4		7.4	9.5	4.5	10.0	9.0	9.1	.0	7.6
SW	3.9	10.9	3.6	.8	.0	.0		21.2	8.8		18.8	19.5	10.2	25.0	19.2	22.3	27.1	25.2
W	3.6	18.7	13.4	4.9	.0	.0		41.3	12.0		44.3	39.2	64.8	38.2	42.7	40.1	39.6	41.1
NW	1.0	4.5	2.4	.9	.0	.0		9.4	12.4		9.9	8.6	6.8	10.7	6.7	9.9	18.7	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		7.1	8.0	.0	3.6	3.5	3.3	.0	3.3
TOT OBS	223	444	234	69	13	0	1023		9.3		141	284	22	140	172	121	12	151
TOT PCT	21.8	47.3	22.9	6.7	1.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.4	.8	.0	.0	.0	2.2	5.4	3.3	2.5	1.5	.3			
NE	1.7	.4	.0	.0	.0	2.2	4.5	2.2	2.4	2.6	2.5			
E	2.3	.3	.0	.0	.0	2.7	4.4	2.7	2.5	2.6	1.2			
SE	5.6	1.9	.0	.0	.0	7.5	5.1	6.2	6.5	9.7	8.0			
S	5.1	3.1	.4	.0	.0	8.7	6.4	8.8	9.3	9.0	7.1			
SW	9.6	8.6	2.7	.2	.0	21.2	8.8	19.3	23.0	20.5	25.3			
W	11.9	18.2	8.9	2.1	.3	41.3	12.0	41.0	41.8	41.6	41.0			
NW	3.1	4.1	1.2	.8	.2	9.4	12.4	9.1	10.2	8.0	11.7			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	5.0					5.0	.0	7.7	3.1	3.4	3.1			
TOT OBS	487	383	136	32	5	1023	9.3	405	162	293	163			
TOT PCT	45.7	37.4	13.3	3.1	.5		100.0	100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 SOUTHEAST JAVA
9.15 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.7	17.8	42.2	23.7	6.7	2.0	.0	9.3	100.0	405
0600	3.1	12.3	50.6	23.5	9.9	.6	.0	10.3	100.0	162
1200	3.4	16.4	50.2	24.2	4.8	1.0	.0	9.0	100.0	293
1800	3.1	19.6	51.5	17.8	7.4	.6	.0	8.5	100.0	163
TOT	51	172	484	234	69	13	0	9.3		1023
PCT	5.0	16.8	47.3	22.9	6.7	1.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.9	.0		7.0
NE	.5	1.9	.9	.0		4.5
E	1.4	1.9	5.7	.0		5.1
SE	1.9	.0	4.7	.0		4.7
S	.9	2.8	.0	.0		2.5
SW	3.8	5.2	.5	.0		2.7
W	10.4	18.4	11.4	10.4		4.4
NW	3.8	1.9	2.8	4.7		4.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.9		8.0
TOT OBS	12	17	15	9	53	4.3
TOT PCT	22.6	32.1	28.3	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4
.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	7.1
.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	.0	3.8
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4
.0	.0	.0	1.9	2.8	5.7	1.9	.0	.0	.0	.0	38.7
.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	8.5
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
0	0	0	1	5	5	1	0	0	0	0	53
.0	.0	.0	1.9	9.4	9.4	1.9	.0	.0	.0	77.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>2000	5.3	8.8	10.5	10.5	10.5	10.5	10.5	10.5
>1000	10.5	17.5	19.3	19.3	19.3	19.3	19.3	19.3
>600	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
>300	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
>150	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
>0	12.3	21.1	22.8	22.8	22.8	22.8	22.8	22.8
TOTAL	7	12	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 57

PCT FREQ NH <5/8: 77.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.5	7.8	21.9	23.4	7.8	7.8	3.1	3.1	12.5	.0	64

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 SOUTHEAST JAVA
9.15 114.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.9	1.0	.0	.0	.0	.0	1.3
	TOT %	.0	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0	1.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.6
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.6
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	1.3
2<5	PCP	.6	.3	.3	.0	.0	.2	1.1	.0	.0	.0	2.6	2.6
	NO PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	.6
	TOT %	.6	.3	.8	.2	.0	.2	1.1	.0	.0	.0	3.2	3.2
5<10	PCP	.6	1.3	1.0	2.3	.0	.4	5.9	2.6	.0	.0	12.3	12.3
	NO PCP	1.6	.0	.6	4.2	1.6	1.9	14.8	4.8	.0	.0	29.7	29.7
	TOT %	2.3	1.3	1.6	6.5	1.6	2.6	18.7	7.4	.0	.0	41.9	41.9
10+	PCP	.0	.0	.3	.3	.0	.2	1.0	1.5	.0	.0	3.2	3.2
	NO PCP	3.1	1.1	3.2	3.1	3.2	5.2	22.7	6.1	.0	1.3	49.0	49.0
	TOT %	3.1	1.1	3.5	3.4	3.2	5.3	23.7	7.6	.0	1.3	52.3	52.3
TOT OBS		6.0	2.7	6.0	10.0	4.8	8.4	44.5	16.3	.0	1.3	100.0	153
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	.4
	TOT %	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9	.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.9	.9
	11-21	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.4	.9	.0	.0	1.3	1.3
2<5	0-3	.4	.0	.3	.1	.0	.0	.0	.0	.0	.0	.9	.9
	4-10	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.4
	TOT %	.4	.2	.6	.1	.0	.1	1.2	.0	.0	.0	2.6	2.6
5<10	0-3	.2	.0	.2	1.1	.0	.0	.2	.4	.0	.0	2.2	2.2
	4-10	1.3	.0	.9	3.4	1.1	.7	4.4	2.0	.0	.0	12.8	12.8
	11-21	.0	.9	.0	.9	.0	.4	6.2	2.6	.0	.0	11.0	11.0
	22+	.0	.0	.0	.0	.0	.7	2.2	.7	.0	.0	3.5	3.5
	TOT %	1.5	.9	1.1	4.4	1.1	1.8	13.0	5.7	.0	.0	29.3	29.3
10+	0-3	.4	.0	1.4	3.6	2.4	1.1	3.9	1.7	.0	6.2	20.7	20.7
	4-10	1.7	.8	1.7	4.2	2.6	5.8	16.0	5.2	.0	.0	37.9	37.9
	11-21	.4	.0	.0	.0	.0	.7	3.4	1.2	.0	.0	5.7	5.7
	22+	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3	1.3
	TOT %	2.5	.8	3.1	7.8	5.1	7.6	24.6	8.0	.0	6.2	65.6	65.6
TOT OBS		4.5	1.9	4.7	12.3	6.2	9.7	39.9	14.6	.0	6.2	100.0	227
TOT PCT													

JANUARY

PERIOD: (PRIMARY) 1964-1969
(OVER-ALL) 1955-1969

AREA 0012 SOUTHEAST JAVA
9.15 114.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 209	200 399	300 599	400 999	500 1000	600 2000	700 3500	800 5000	900 6500	1000+ 8000+	TOTAL ANY HGT	NM <5/8 OBS	TOTAL OBS
00003	.0	.0	.0	.0	11.1	5.6	.0	.0	.0	.0	.0	16.7	83.3	18
06009	.0	.0	.0	5.9	9.9	11.8	.0	.0	.0	.0	.0	23.5	76.5	17
12015	.0	.0	.0	.0	7.1	14.3	.0	.0	.0	.0	.0	21.4	78.6	14
18021	.0	.0	.0	9.1	9.1	.0	9.1	.0	.0	.0	.0	27.3	72.7	11
TOT	0	0	0	2	5	5	1	0	0	0	0	13	47	60
PCT	.0	.0	.0	3.3	8.3	8.3	1.7	.0	.0	.0	.0	21.7	78.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2 149	1/2-1 209	1-2 399	2-5 599	5-10 999	10+ 1999	TOTAL OBS
00003	.0	1.3	.0	2.7	26.7	69.3	75
06009	.0	.0	.0	2.1	31.9	66.0	47
12015	.0	.0	4.2	4.2	31.0	60.6	71
18021	.0	2.1	.0	.0	37.5	60.4	48
TOT	0	2	3	6	75	155	241
PCT	.0	.8	1.2	2.5	31.1	64.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 149	<600 209	<1000 399	1000+ 599	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	16.7	83.3	18
06009	.0	.0	13.3	13.3	73.3	15
12015	.0	.0	7.7	23.1	69.2	13
18021	.0	9.1	18.2	18.2	63.6	11
TOT	0	1	5	10	42	57
PCT	.0	1.8	8.8	17.5	73.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29 149	30-39 209	40-49 399	50-59 599	60-69 999	70-79 1999	80-89 3499	90-100 4999	TOTAL OBS	PCT FREQ
85/69	.0	.0	.0	.0	1.1	6.5	3.3	1.1	11	12.0
80/84	.0	.0	.0	.0	.0	22.8	45.7	2.2	65	70.7
75/79	.0	.0	.0	.0	.0	6.5	10.9	.0	16	17.4
TOTAL	0	0	0	0	1	27	51	13	92	100.0
PCT	.0	.0	.0	.0	1.1	29.3	55.4	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.4	.5	.0	.0	1.1	1.9	6.3	.8	.0	.0
2.7	.0	3.0	7.9	1.1	8.0	40.8	9.2	.0	.0
.0	2.7	1.6	2.2	.0	1.6	3.8	5.4	.0	.0
4.1	3.3	4.6	10.1	2.2	9.5	50.8	15.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	92	89	84	79	77	75	83.8	396
06009	93	92	90	84	81	76	75	84.4	152
12015	89	88	86	82	77	75	73	82.4	267
18021	87	86	84	81	78	76	74	81.2	156
TOT	94	91	88	83	78	76	73	83.1	971

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29 149	30-39 209	40-49 399	50-59 599	60-69 999	70-79 1999	80-89 3499	90-100 4999	MEAN	TOTAL OBS
00003	.0	.0	.0	37.5	50.0	12.5	82		82	42
06009	.0	.0	4.8	38.1	42.9	14.3	81		81	21
12015	.0	.0	.0	23.3	66.7	10.0	83		83	30
18021	.0	.0	.0	13.0	55.0	30.0	87		87	20
TOT	0	0	1	30	56	16	83		83	103

PERIOD: (PRIMARY) 1864-1969
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 SOUTHEAST JAVA
9.13 114.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
5	.0	.0	.0	.0	.0	1	.0	.0
4	.0	.0	.0	1.7	.0	2	.0	2.5
3	.0	.0	.0	1.7	.0	3	.0	2.5
2	.0	.0	3.3	2.5	.0	7	.0	5.8
1	.0	.0	7.5	2.5	.0	13	.0	10.0
0	.0	.0	23.3	5.0	.0	34	.0	27.5
-1	.0	.0	10.8	2.5	.0	16	.0	13.3
-2	.0	2.5	5.0	1.7	.0	11	.0	9.2
-3	.0	3.3	5.0	.0	.0	11	.0	9.2
-4	.0	5.0	2.5	.0	.0	10	.0	8.3
-5	.0	1.7	.0	.0	.0	3	.0	2.5
-6	.0	2.5	.0	.0	.0	4	.0	3.3
-7/-8	.0	1.7	.0	.0	.0	5	.0	2.5
-9/-10	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	5	21	70	22	2	120	1.7	98.3
PCT	4.2	17.5	58.3	18.3	1.7	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	49-50	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	TOT PCT	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	49-50	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	TOT PCT	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1969

JANUARY

AREA 0012 SOUTHEAST JAVA
9.15 114.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8
3-4	.0	3.8	.0	.0	.0	.0	3.8	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	.0	.0	.0	.0	3.8	.0	3.8	1.9	.0	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	7.7	3.8	.0	.0	.0	.0	11.5	.0	7.7	.0	.0	.0	.0	7.7	
1-2	.0	23.1	3.8	.0	.0	.0	26.9	.0	3.8	.0	.0	.0	.0	3.8	
3-4	.0	3.8	7.7	.0	.0	.0	11.5	.0	.0	7.7	.0	.0	.0	7.7	
5-6	.0	.0	10.6	.0	.0	.0	10.6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	30.8	23.0	3.8	.0	.0	67.3	.0	11.5	7.7	.0	.0	.0	19.2	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	11.1	.0	.0	.0	.0	22.2	
1-2	.0	33.3	3.7	.0	.0	.0	37.0	
3-4	.0	7.4	14.8	.0	.0	.0	22.2	
5-6	.0	.0	11.1	.0	.0	.0	11.1	
7	.0	.0	3.7	.0	.0	.0	3.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	3.7	.0	.0	3.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	51.9	33.3	9.7	.0	.0	100.0	27

PERIOD: (OVER-ALL) 1951-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	9.8	14.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
6-7	.0	.0	9.8	2.4	2.4	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
8-9	.0	2.4	.0	4.9	9.8	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
10-11	.0	.0	2.4	.0	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	12.2	2.4	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	2
TOTAL	6	6	11	4	8	3	0	1	0	0	0	0	0	0	0	0	0	0	0	41	4
PCT	14.6	14.6	26.8	9.8	19.5	12.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1899-1973

AREA 0012 SOUTHEAST JAVA
9.05 114.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	7.6	.0	.0	.0	.0	6.1	13.6	4.5	13.6	.0	.0	.0	.0	74.2
NE	7.1	14.3	.0	.0	.0	.0	.0	21.4	.0	.0	.0	.0	.0	.0	78.6
E	19.6	.0	.0	.0	.0	.0	.0	19.6	.0	23.5	3.9	.0	.0	.0	60.8
SE	16.0	.0	.0	.0	.0	.0	.0	16.0	.0	.0	8.0	.0	.0	.0	76.0
S	.0	21.6	.0	.0	.0	.0	.0	21.6	.0	10.8	10.8	.0	.0	.0	56.8
SW	6.9	.0	.0	.0	.0	.0	.0	6.9	.0	4.3	.0	.0	.0	.0	88.8
W	16.8	2.0	.0	.0	.0	.0	.0	18.8	4.0	8.4	.0	.0	.0	.0	71.6
NW	3.5	1.8	.0	.0	.0	.0	.0	5.3	.6	2.9	.0	.0	2.3	.0	90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	20.0	.0	.0	.0	.0	60.0
TOT PCT	9.5	3.4	.0	.0	.0	.0	.0	13.4	1.7	7.8	1.1	.0	.6	.0	77.7
TOT OBS:	179														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.1	5.7	.0	.0	.0	.0	.0	12.9	.0	1.4	1.4	.0	.0	.0	85.7
06009	14.3	5.7	.0	.0	.0	.0	.0	20.0	2.9	.0	2.9	.0	.0	.0	74.3
12015	9.4	1.6	.0	.0	.0	.0	.0	10.9	1.6	14.1	.0	.0	1.6	.0	73.4
18021	9.1	.0	.0	.0	.0	.0	.0	12.1	7.0	24.2	.0	.0	.0	.0	69.7
TOT PCT	9.4	3.5	.0	.0	.0	.0	.5	13.4	1.5	8.9	1.0	.0	.5	.0	77.2
TOT OBS:	202														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	2.7	.8	.1	.0	.0		4.4	7.3		2.4	5.5	8.8	3.7	5.8	2.9	13.5	2.5
NE	1.9	1.8	.2	.0	.0	.0		3.9	4.3		3.8	7.0	.0	2.1	3.0	2.9	.0	3.0
E	1.3	3.5	.5	.0	.0	.0		5.3	5.7		5.0	7.7	3.8	3.3	2.7	4.5	7.7	7.6
SE	1.0	4.2	.7	.0	.0	.0		6.0	6.7		2.1	7.2	1.3	9.1	8.2	3.3	.0	5.1
S	3.0	5.0	.3	.0	.0	.0		8.3	5.1		8.2	6.6	3.8	9.9	11.0	7.4	7.7	9.7
SW	2.1	9.7	4.3	.3	.1	.0		16.4	8.6		11.4	13.4	15.0	20.2	18.2	14.0	11.5	23.7
W	3.6	14.7	11.4	1.7	.4	.0		31.8	10.7		36.2	28.9	40.0	34.7	30.6	35.5	32.7	26.7
NW	3.6	7.3	4.4	.9	.1	.0		16.2	9.0		27.1	15.1	27.5	10.5	12.9	16.9	19.2	16.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.6	.0	.0	.0	.0	.0		7.6	.0		5.7	8.5	.0	6.6	7.5	12.4	7.7	5.1
TOT OBS	226	444	205	26	5	0		906			105	235	20	121	173	121	13	118
TOT PCT	24.9	49.0	22.6	2.9	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	2.6	1.5	.4	.0	.0		4.4	7.5	4.6	4.4	3.6
NE	3.2	.7	.0	.0	.0		3.9	4.3	6.0	1.8	2.7
E	3.9	1.4	.1	.0	.0		5.3	5.7	6.8	3.4	7.6
SE	3.8	2.0	.3	.0	.0		6.0	6.7	5.7	8.0	4.6
S	6.2	2.0	.1	.0	.0		8.3	5.1	6.5	9.0	9.5
SW	7.4	7.4	1.6	.1	.1		16.4	8.6	12.8	19.5	22.5
W	9.9	16.0	5.2	.6	.2		31.8	10.7	31.2	35.5	27.3
NW	7.3	6.8	1.9	.3	.0		16.2	9.0	18.8	12.8	16.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	7.6	.0	.0	.0	.0		7.6	.0	7.6	5.7	5.3
TOT OBS	469	341	86	8	2		906		340	141	131
TOT PCT	51.8	37.6	9.5	.9	.2		100.0		100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1955-1973

AREA 0012 SOUTHEAST JAVA
9.05 114.16

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	7.6	20.3	48.5	19.7	3.2	.6	.0	.0	7.6	100.0	340
0600	5.7	16.9	47.5	27.0	2.8	.7	.0	.0	8.6	100.0	141
1200	9.5	15.6	49.0	22.8	2.7	.3	.0	.0	7.7	100.0	264
1800	5.3	14.5	51.9	25.2	2.3	.0	.0	.0	8.2	100.0	131
TOT	69	157	444	205	26	5	0	0	7.9		906
PCT	7.6	17.3	49.0	22.6	2.9	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.0	3.5	1.5		7.3
NE	.0	.0	.0	.0		.0
E	2.0	1.5	3.5	.0		3.4
SE	.0	.5	.5	.0		4.0
S	2.0	1.5	.0	.0		1.8
SW	2.5	5.0	5.5	.0		4.0
W	9.0	1.5	15.5	14.0		5.6
WV	4.5	6.0	7.5	6.5		5.1
VIS	.0	.0	.0	.0		.0
CALM	2.0	4.0	.0	.0		2.3
TOT OBS	11	10	18	11	50	4.8
TOT PCT	22.0	20.0	36.0	22.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	999	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	3.5	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	5.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	
SW	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0	12.0	
W	.0	.0	1.5	2.0	11.5	2.0	.0	3.0	.0	.0	20.0	
WV	.0	.0	.5	2.0	4.5	.0	.5	.0	.0	.0	17.0	
VIS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	2	10	2	0	2	0	0	33	50
TOT PCT	.0	.0	2.0	4.0	20.0	4.0	.0	4.0	.0	.0	66.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VISBY (NH)

CEILING (FEET)	VISBY (NH)				VISBY (NH)				VISBY (NH)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
>6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>2000	5.5	5.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
>1000	18.2	23.6	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
>600	20.0	27.3	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
>300	21.6	29.1	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
>150	21.8	29.1	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
>0	21.8	29.1	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
TOTAL	12	16	18	18	18	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 55

PCT FREQ NH <5/8: 67.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
5.4	14.3	19.6	21.4	7.1	7.1	10.7	1.8	12.5	.0	56

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1859-1973

FEBRUARY

AREA 0012 SOUTHEAST JAVA
9.05 114.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS													179
TOT PCT		9.2	9.9	7.1	3.5	5.2	16.2	28.2	23.0	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS													257
TOT PCT		8.8	4.4	7.3	4.2	4.4	16.5	28.0	19.5	.0	7.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1859-1973

AREA 0012 SOUTHEAST JAVA
9.05 114.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	8.3	91.7	12
06009	.0	.0	.0	5.9	11.8	5.9	.0	5.9	.0	.0	29.4	70.6	17
12015	.0	.0	.0	7.7	38.5	.0	.0	7.7	.0	.0	53.8	46.2	13
18021	.0	.0	.0	.0	28.6	7.1	.0	.0	.0	.0	35.7	64.3	14
TOT	0	0	1	2	11	2	0	2	0	0	18	38	56
PCT	.0	.0	1.8	3.6	19.6	3.6	.0	3.6	.0	.0	32.1	67.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.1	2.1	24.5	72.3	94
06009	.0	.0	.0	2.0	30.0	68.0	90
12015	.0	1.1	3.3	3.3	33.7	58.7	92
18021	.0	.0	.0	9.1	31.8	59.1	44
TOT	0	1	4	10	83	182	280
PCT	.0	.4	1.4	3.6	29.6	65.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	8.3	16.7	.0	83.3	12
06009	.0	.0	5.9	23.5	70.6	17
12015	.0	.0	7.7	46.2	46.2	13
18021	.0	.0	15.4	23.1	61.5	13
TOT	0	1	6	13	36	59
PCT	.0	1.8	10.9	23.6	65.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.6	5.5	7.0	.0	18	14.1
80/84	.0	.0	.0	.0	1.6	21.1	45.3	7.0	96	75.0
75/79	.0	.0	.0	.0	.0	.8	6.3	2.3	12	9.4
70/74	.0	.0	.0	.0	.0	.0	.8	.8	2	1.6
TOTAL	0	0	0	0	4	35	76	13	128	100.0
PCT	.0	.0	.0	.0	3.1	27.3	59.4	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.8	.0	1.2	1.2	.0	2.0	5.5	3.5	.0	.0
80/84	7.2	.4	3.7	2.9	4.9	14.1	20.5	18.9	.0	2.3
75/79	.8	.4	2.0	.0	.0	.0	3.9	1.6	.0	.8
70/74	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0
TOTAL	8.8	.8	6.8	4.1	4.9	16.0	30.7	24.8	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	91	89	84	79	76	7-	83.9	339
06009	91	90	89	84	80	74	73	83.8	139
12015	93	90	86	83	79	77	76	82.7	287
18021	90	88	85	82	79	77	75	82.0	133
TOT	93	91	88	83	79	76	73	83.2	898

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	8.5	23.4	59.6	8.5	81	47		
06009	.0	.0	4.0	40.0	44.0	12.0	81	25		
12015	.0	.0	.0	28.3	60.9	10.9	83	46		
18021	.0	.0	.0	25.0	60.7	14.3	84	28		
TOT	0	0	5	41	84	18	82	146		

FEBRUARY

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1855-1973

TABLE 17

AREA 0012 SOUTHEAST JAVA
9.05 114.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

ΔIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.7	1	.0	.7
6	.0	.0	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	1.4	1.4	.0	4	.0	2.9
3	.0	.0	.7	2.9	.7	.0	6	.0	4.3
2	.0	.7	5.0	5.0	.0	.0	15	.0	10.8
1	.0	.0	6.5	4.3	.0	.0	15	.0	10.8
0	.0	.0	12.2	2.9	.0	.0	21	.7	14.4
-1	.0	.7	12.9	2.2	.0	.0	22	.0	15.8
-2	.0	1.4	17.3	.7	.0	.0	27	.0	19.4
-3	.0	2.9	4.3	.0	.0	.0	10	.0	7.2
-4	1.4	2.2	.0	.0	.0	.0	5	.0	3.6
-5	.0	1.4	2.9	.7	.0	.0	7	.0	5.0
-6	.0	.7	.0	.0	.0	.0	1	.0	.7
-7/-8	.7	.7	.0	.0	.0	.0	2	.0	1.4
-9/-10	.0	.7	.0	.0	.0	.0	1	.0	.7
-11/-13	.7	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	4	16	88	28	4	1	139	1	138
PCT	2.9	11.5	61.9	20.1	2.9	.7	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.6	4.8	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	4.8	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.9	.0	.0	.0	.0	11.9	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.9	.0	.0	.0	.0	11.9	.0	2.4	.0	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0012 SOUTHEAST JAVA
9.05 116.18

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.8	.0	.0	.0	7.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.0	.0	.0	.0	9.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	11.9	4.8	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	8.3	.0	.0	.0	13.5	.0	11.9	.0	.0	.0	.0	11.9	.0
7	.0	.0	14.3	.0	.0	.0	14.3	.0	.0	9.5	.0	.0	.0	9.5	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.0	27.4	.0	.0	.0	46.4	.0	11.9	9.5	.0	.0	.0	21.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	16.0	.0	.0	.0	.0	.0	.0	16.0
1-2	.0	24.0	8.0	.0	.0	.0	.0	32.0
3-4	.0	20.0	12.0	.0	.0	.0	.0	32.0
5-6	.0	.0	20.0	.0	.0	.0	.0	20.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	16.0	44.0	40.0	.0	.0	.0	100.0	25

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	6.8	11.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
6-7	2.3	.0	6.8	11.4	4.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
8-9	.0	.0	2.3	9.1	6.8	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
10-11	.0	.0	2.3	2.3	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	4.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	6.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	5	3	13	13	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
PCT	11.4	6.8	29.5	29.5	13.2	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

MARCH

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNDKE HAZE	SPRAY BLNG DUST BLNG SNOW	NO SIG NEA
N	.0	9.5	.0	.0	.0	.0	.0	9.5	.0	.0	2.7	.0	.0	.0	87.4
NE	.0	16.1	.0	.0	.0	.0	.0	16.1	.0	.0	6.5	.0	.0	.0	77.4
E	2.0	2.0	.0	.0	.0	.0	.0	4.0	8.0	8.0	4.0	.0	.0	.0	76.0
SE	17.9	12.8	.0	.0	.0	.0	.0	30.8	10.3	15.4	.0	.0	.0	.0	53.8
S	7.9	5.3	.0	.0	.0	.0	.0	13.2	.0	5.3	.0	.0	.0	.0	81.6
SW	7.7	5.1	.0	.0	.0	.0	.0	12.8	.0	5.1	.0	.0	.0	.0	82.1
W	7.1	2.4	.0	.0	.0	.0	.0	9.5	2.4	2.4	.0	.0	1.2	.0	86.9
NW	4.6	.0	.0	.0	.0	.0	.0	4.6	.0	9.2	.0	.0	2.3	.0	88.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1	.0	.0	.0	.0	.0	.0	11.1	.0	11.1	.0	.0	.0	.0	77.8
TOT PCT	6.6	4.9	.0	.0	.0	.0	.0	11.5	2.7	6.0	1.1	.0	.5	.0	80.2
TOT OBS:	182														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNDKE HAZE	SPRAY BLNG DUST BLNG SNOW	NO SIG NEA
0000	5.8	5.8	.0	.0	.0	.0	.0	11.6	4.3	1.4	2.9	.0	.0	.0	79.7
0600	5.3	7.6	.0	.0	.0	.0	.0	7.9	2.6	2.6	.0	.0	.0	.0	89.5
1200	10.7	7.1	.0	.0	.0	.0	.0	17.9	1.8	7.1	.0	.0	1.8	.0	76.8
1800	.0	7.3	.0	.0	.0	.0	.0	7.3	.0	14.6	.0	.0	.0	.0	78.0
TOT PCT TOT OBS:	5.9 204	5.9	.0	.0	.0	.0	.0	11.8	2.5	5.9	1.0	.0	.5	.0	80.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12
N	1.6	3.7	.7	.0	.0	.0		6.0	6.2		4.9	5.6	16.7	1.5	6.6
NE	1.5	3.2	.3	.0	.0	.0		5.0	5.6		4.1	6.7	.0	5.4	6.8
E	2.8	7.2	2.0	.0	.0	.0		12.0	6.9		10.6	14.9	20.8	11.4	9.8
SE	3.9	11.3	2.7	.0	.0	.0		17.9	6.9		21.4	17.3	1.4	20.3	18.8
S	3.2	5.9	.6	.0	.0	.0		9.7	5.5		12.4	11.4	5.6	10.9	8.3
SW	3.2	6.5	2.0	.3	.0	.0		11.9	7.1		10.3	9.9	.0	14.4	15.8
W	2.7	10.3	6.3	2.0	.0	.0		21.2	10.2		18.8	18.1	39.9	25.2	18.0
NW	1.2	5.5	1.9	.6	.0	.0		9.2	9.0		12.4	8.5	5.6	5.9	9.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0
CALM	7.0							7.0	.0		5.2	7.6	11.1	5.0	6.8
TOT OBS	200	396	122	21	0	0	739	7.0	7.1		97	171	18	101	133
TOT PCT	27.1	53.6	16.9	2.8	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.9	2.1	.1	.0	.0			6.0	6.2		5.3	3.8	6.8
NE	3.3	1.6	.1	.0	.0			5.0	5.6		5.8	4.6	5.2
E	6.8	4.9	.7	.0	.0			12.0	6.8		13.3	12.8	10.5
SE	9.3	8.2	.4	.0	.0			17.9	6.9		18.8	17.4	17.9
S	6.6	3.0	.1	.0	.0			9.7	5.5		11.8	10.1	7.2
SW	6.6	4.8	.5	.0	.0			11.9	7.1		10.1	12.2	14.3
W	8.0	8.8	4.3	.1	.0			21.2	10.2		18.4	27.3	20.9
NW	4.0	4.1	1.1	.1	.0			9.2	9.0		9.9	5.9	8.6
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	7.0							7.0	.0		6.7	5.9	8.5
TOT OBS	410	274	53	2	0	739		7.1			288	119	223
TOT PCT	55.5	37.1	7.2	.3	.0			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

MARCH

AREA 0012 SOUTHEAST JAVA
9.08 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	6.7	23.9	51.9	14.9	2.6	.0	.0	.0	6.0	100.0	268
06009	5.9	12.6	58.8	17.0	5.0	.0	.0	.0	8.1	100.0	119
12015	8.5	20.2	52.9	15.2	3.1	.0	.0	.0	7.1	100.0	223
18021	6.2	18.6	53.5	20.9	.8	.0	.0	.0	7.2	100.0	129
TOT	52	148	396	122	21	0	0	0	7.1		739
PCT	7.0	20.0	53.6	16.5	2.8	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8 BSCD	TOTAL CBS	MEAN CLOUD COVER
N	1.1	1.4	4.0	2.5		5.8
NE	1.4	.0	.0	1.8		4.4
E	5.8	6.5	5.8	1.4		4.0
SE	1.4	.7	2.9	4.3		6.0
S	4.0	.0	.0	2.9		4.2
SW	3.3	.4	1.4	.0		3.1
W	5.8	8.3	9.8	5.8		4.9
NW	1.8	2.9	3.6	1.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.9	.0	2.9	1.4		4.8
TOT OBS	19	14	21	15	49	4.7
TOT PCT	27.5	20.3	30.4	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 294	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	1.1	.0	.0	.0	2.9	.0	.0	.0	.0	5.1	
NE	.0	.4	.0	.0	1.4	.0	.0	.0	.0	.0	1.4	
E	.0	.0	.0	.0	2.9	.0	1.4	.0	.0	.0	15.2	
SE	.0	.0	.0	.0	2.9	1.4	1.4	.0	.0	.0	3.6	
S	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	5.4	
SW	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	3.6	
W	.0	.0	1.4	4.3	1.4	4.3	.0	.0	.0	.0	18.1	
NW	.0	.0	.0	.0	1.4	1.4	1.4	.0	.0	.0	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.4	2.9	.0	.0	.0	.0	.0	2.9	
TOT OBS	0	1	5	10	7	3	0	0	0	0	42	69
TOT PCT	.0	1.4	1.4	7.2	14.3	10.1	4.3	.0	.0	.0	60.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)				VSBY (NH)				= OR >0
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD		
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >2000	12.7	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
= OR >1000	25.4	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
= OR >600	31.0	33.2	36.6	36.6	36.6	36.6	36.6	36.6	36.6
= OR >300	32.4	36.6	38.0	38.0	38.0	38.0	38.0	38.0	38.0
= OR >150	32.4	36.6	38.0	39.4	39.4	39.4	39.4	39.4	39.4
= OR >0	32.4	36.6	38.0	39.4	39.4	39.4	39.4	39.4	39.4
TOTAL	23	26	27	28	28	28	28	28	28

TOTAL NUMBER OF OBS: 71

PCT FREQ NH <5/8: 60.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.8	19.1	20.5	8.2	11.0	9.6	12.3	5.5	71.0	.0	73

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

MARCH

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5	.5
	TOT %	.4	.1	.0	.0	.0	.0	.3	.3	.0	.0	1.1	1.1
2<5	PCP	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	1.1	1.1
	NO PCP	.0	.0	1.1	.0	.0	.1	.4	.0	.0	.0	1.6	1.6
	TOT %	.0	.0	1.1	.0	.5	.1	1.0	.0	.0	.0	2.7	2.7
5<10	PCP	.5	.0	.5	2.2	.8	1.4	1.1	.5	.0	.5	7.7	7.7
	NO PCP	7.3	1.6	4.7	.8	2.3	6.3	11.0	4.0	.0	.5	34.6	34.6
	TOT %	3.8	1.6	5.2	3.0	3.2	7.7	12.1	4.5	.0	1.1	42.3	42.3
10+	PCP	.0	.5	.0	1.1	.0	.0	.5	.0	.0	.0	2.2	2.2
	NO PCP	5.9	1.9	7.4	6.6	6.7	2.9	9.2	7.1	.0	3.8	51.6	51.6
	TOT %	5.9	2.5	7.4	7.7	6.7	2.9	9.8	7.1	.0	3.8	53.8	53.8
TOT OBS													182
TOT PCT		10.2	4.3	13.7	10.7	10.4	10.7	23.1	12.0	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.8	.8
	4-10	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.8	.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.0	.3	.7	.0	.0	.0	1.5	1.5
1<2	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	4-10	.3	.1	.0	.0	.0	.0	.2	.2	.0	.0	.8	.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.5	.0	.0	.0	.0	.2	.2	.0	.0	1.1	1.1
2<5	0-3	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.4
	4-10	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	1.5	1.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
	TOT %	.0	.0	.8	.0	.8	.1	.7	.0	.0	.0	2.3	2.3
5<10	0-3	.4	.4	2.1	1.0	.6	1.9	.6	.0	.0	1.5	8.4	8.4
	4-10	1.9	1.1	2.1	1.0	1.3	2.6	3.4	1.3	.0	.0	16.8	16.8
	11-21	.4	.0	.2	.6	.5	.9	2.6	1.8	.0	.0	6.9	6.9
	22+	.0	.0	.0	.0	.0	.2	.8	.6	.0	.0	1.5	1.5
	TOT %	2.7	1.5	4.4	2.5	2.4	5.5	9.4	3.7	.0	1.5	33.6	33.6
10+	0-3	2.3	1.5	1.4	2.6	2.9	.0	.8	1.9	.0	5.0	18.3	18.3
	4-10	4.1	2.3	5.8	4.5	3.0	2.7	7.1	5.4	.0	.0	34.7	34.7
	11-21	1.1	.0	1.3	1.0	1.0	.7	2.8	.1	.0	.0	8.0	8.0
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
	TOT %	7.5	3.8	8.6	8.0	6.8	3.3	11.0	7.4	.0	5.0	61.5	61.5
TOT OBS													262
TOT PCT		10.9	5.8	13.7	10.5	9.9	9.4	21.9	11.4	.0	6.5	100.0	

MARCH

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

MOHR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	11.1	11.1	11.1	5.6	.0	.0	.0	38.9	61.1	18
06009	.0	.0	.0	12.5	6.3	12.5	.0	.0	.0	.0	31.3	68.8	16
12015	.0	.0	.0	.0	35.3	5.9	5.9	.0	.0	.0	47.1	52.9	17
18021	.0	4.5	4.5	4.5	4.5	9.1	9.1	.0	.0	.0	36.4	63.6	22
TOT	0	1	1	3	10	7	4	0	0	0	28	45	73
PCT	.0	1.4	1.4	6.8	13.7	9.6	5.3	.0	.0	.0	38.4	61.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MOHR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.1	.0	3.3	37.0	58.7	92
06009	.0	.0	.0	2.2	30.4	67.4	46
12015	.0	3.5	2.4	.0	42.4	51.8	85
18021	.0	.0	1.6	3.3	27.9	67.2	61
TOT	0	4	3	6	101	170	284
PCT	.0	1.4	1.1	2.1	35.6	59.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

MOHR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.1	27.8	61.1	18
06009	.0	.0	12.5	18.8	68.8	16
12015	.0	.0	.0	50.0	50.0	16
18021	.0	9.5	19.0	23.8	57.1	21
TOT	0	2	8	21	42	71
PCT	.0	2.8	11.3	29.6	59.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.8	.0	.0	2	1.7
85/89	.0	.0	.0	.0	.8	9.3	5.9	.8	20	16.9
80/84	.0	.0	.0	.0	.8	18.6	39.0	8.5	79	66.9
75/79	.0	.0	.0	.0	.0	.0	8.5	5.9	17	14.4
TOTAL	0	0	0	0	3	34	63	18	118	100.0
PCT	.0	.0	.0	.0	2.5	28.8	53.4	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0
85	.0	.8	3.6	2.3	1.3	1.7	4.7	1.7	.0	.8
80	7.4	.8	12.3	8.9	5.1	8.5	14.2	8.1	.0	1.7
75	.6	.2	.4	.4	2.5	.0	5.1	3.4	.0	1.7
TOT	8.1	1.9	17.2	11.7	8.9	10.2	23.9	14.0	.0	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOHR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	89	88	84	79	76	75	83.5	264
06009	90	89	88	84	80	77	77	84.3	117
12015	89	87	86	83	79	77	75	82.7	223
18021	88	86	85	82	77	75	75	81.4	132
TOT	91	89	87	83	79	77	75	83.0	736

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOHR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.3	36.4	52.3	9.1	81	44
06009	.0	.0	8.3	41.7	41.7	8.3	78	24
12015	.0	.0	.0	25.6	51.3	23.1	84	39
18021	.0	.0	.0	9.4	76.1	12.5	85	32
TOT	0	0	3	39	78	19	82	139

PERIOD: (PRIMARY) 1871-1969
(OVER-ALL) 1858-1969

MARCH

AREA 0012 SOUTHEAST JAVA
9.08 114.38

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
7/8	.0	.0	.0	.7	.7	2	.0	1.5
6	.0	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	.7	.0	1	.0	.7
4	.0	.0	.0	1.5	.7	3	.0	2.2
3	.0	.7	.0	2.2	.0	4	.0	3.0
2	.0	.0	6.0	5.2	.0	15	.7	10.4
1	.0	.0	6.0	3.7	.0	13	.0	9.7
0	.7	.0	13.4	.7	.0	20	.7	14.2
-1	.0	.7	14.2	1.5	.0	22	.0	16.4
-2	.0	3.0	16.4	.0	.0	26	.0	19.4
-3	.0	3.0	3.0	.0	.0	8	.0	6.0
-4	.0	2.2	2.2	.0	.0	6	.0	4.5
-5	.0	.7	2.2	.0	.0	4	.0	3.0
-6	.0	2.2	.0	.0	.0	3	.0	2.2
-7/-8	.7	2.2	.0	.0	.0	4	.0	3.0
-9/-10	.0	1.5	.0	.0	.0	2	.0	1.5
TOTAL	2	22	85	23	2	134	2	132
PCT	1.5	16.4	63.4	17.2	1.5	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	5.0	.0	.0	.0	.0	5.0	.0	.7	.0	.0	.0	.0	.7
3-4	.0	2.9	2.9	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.7	2.9	.0	.0	.0	13.6	.0	3.6	.0	.0	.0	.0	3.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	7.9	.0	.0	.0	.0	7.9	.0	.7	.0	.0	.0	.0	.7
3-4	.0	2.9	2.9	.0	.0	.0	5.7	.0	.0	2.9	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.7	2.9	.0	.0	.0	13.6	.0	3.6	2.9	.0	.0	.0	6.4

PERIOD: (OVER-ALL) 1963-1969

M-RCM

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	2.9	.0	.0	.0	.0		.0	2.9	.0	.0	.0	.0	.0		2.9
3-4	.0	.0	2.9	.0	.0	.0		.0	.0	2.9	.0	.0	.0	.0		2.9
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	2.9	2.9	.0	.0	.0		5.7	.0	2.9	2.9	.0	.0	.0		5.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	5.7	.0	.0	.0	.0		.0	5.7
1-2	.0	8.6	2.9	.0	.0	.0		11.4	.0	2.9	.0	.0	.0	.0		.0	2.9
3-4	.0	.0	13.6	.0	.0	.0		13.6	.0	2.9	.7	.0	.0	.0		.0	3.6
5-6	.0	.0	.0	2.9	.0	.0		2.9	.0	.0	.0	.0	.0	.0		.0	.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	.0	8.6	16.4	2.9	.0	.0		27.9	.0	11.4	.7	.0	.0	.0		12.1	88.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.4	14.3	.0	.0	.0	.0	25.7	
1-2	.0	31.4	2.9	.0	.0	.0	34.3	
3-4	.0	8.6	28.6	.0	.0	.0	37.1	
5-6	.0	.0	.0	2.9	.0	.0	2.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.4	54.3	31.4	2.9	.0	.0	100.0	35

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	7.3	16.4	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
6-7	.0	.0	3.6	3.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
8-9	.0	.0	5.5	3.6	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	1.8	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.2	5.5	10.9	1.8	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
TOTAL	11	9	21	10	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	53	9
PCT	20.0	16.4	38.2	18.2	1.8	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

APRIL

AREA 0012 SOUTHEAST JAVA
8.95 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	53.3	.0	.0	.0	.0	.0	.0	53.3	6.7	.0	.0	.0	.0	.0	40.0
E	6.2	4.4	.0	.0	.0	.0	.0	10.6	2.6	5.7	6.2	.0	.0	.0	79.3
SE	1.2	3.6	.0	.0	.0	.0	.0	4.8	.6	4.2	6.0	.0	.0	.0	85.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	91.3
SW	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
W	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	92.9
NW	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT OBS:	5.8	2.9	.0	.0	.0	.0	.0	8.7	1.4	3.6	4.3	.0	.7	.0	83.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG	NO SIG WEA
0000Z	4.8	7.1	.0	.0	.0	.0	.0	11.9	.0	2.4	2.4	.0	.0	.0	85.7
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	3.6	.0	.0	.0	92.9
1201Z	6.8	.0	.0	.0	.0	.0	.0	6.8	2.3	2.3	6.8	.0	2.3	.0	81.8
1802Z	13.3	3.3	.0	.0	.0	.0	.0	16.7	.0	13.3	3.3	.0	.0	.0	73.3
TOT PCT TOT OBS:	6.3 144	2.8	.0	.0	.0	.0	.0	9.0	1.4	4.2	4.2	.0	.7	.0	83.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18
N	1.5	1.1	.2	.0	.0	.0	2.8	4.6	5.0	2.8	.0	1.3	.9	2.9	.0	5.2
NE	1.4	2.8	.9	.0	.0	.0	5.2	8.3	8.1	5.1	2.8	7.3	1.9	4.6	10.5	4.5
E	1.6	20.2	11.7	.2	.0	.0	33.7	9.4	28.3	28.1	44.4	34.0	33.2	38.5	38.2	37.7
SE	3.3	17.3	9.2	.2	.0	.0	30.0	8.8	23.3	24.7	31.9	40.7	39.3	30.5	25.5	18.2
S	2.4	4.0	.8	.0	.0	.0	7.1	6.2	9.7	8.4	9.7	5.3	5.6	8.6	.7	5.8
SW	.5	2.3	.7	.0	.0	.0	3.6	7.2	3.9	1.1	5.6	2.0	5.6	3.4	.0	5.2
W	1.8	4.5	.4	.2	.0	.0	6.9	6.2	8.9	15.7	.0	5.3	4.7	5.2	5.3	3.2
NW	.5	2.3	.6	.4	.0	.0	3.8	9.2	5.0	3.9	.0	2.7	3.3	2.9	5.3	5.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.9						6.9	.0	7.8	10.1	5.6	1.3	5.6	3.4	5.3	14.3
TOT OBS	113	396	138	5	0	0	562	7.7	90	89	18	75	107	87	19	77
TOT PCT	20.1	54.4	24.6	.9	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	12	18
N	2.0	.7	.0	.0	.0	2.8	4.6	3.9	1.1	1.8	4.2
NE	3.3	1.8	.1	.0	.0	5.2	8.3	6.6	6.5	3.1	5.7
E	9.3	22.6	1.5	.0	.0	33.7	9.4	28.2	36.0	35.6	37.8
SE	9.1	20.2	.7	.0	.0	30.0	8.8	24.0	39.0	35.3	21.6
S	4.2	2.7	.2	.0	.0	7.1	6.2	9.1	6.2	7.0	4.7
SW	2.4	.7	.4	.0	.0	3.6	7.2	2.5	2.7	4.6	4.2
W	4.6	2.0	.3	.0	.0	6.9	6.2	12.3	4.3	4.9	3.6
NW	1.6	1.9	.2	.2	.0	3.8	9.2	4.5	2.2	3.1	5.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.9					6.9	.0	8.9	2.2	4.6	12.5
TOT OBS	246	296	19	1	0	562	7.7	179	93	194	96
TOT PCT	43.8	52.7	3.4	.2	.0	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

APRIL

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOHR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	8.9	17.9	52.5	17.9	2.8	.0	.0	7.2	100.0	179
0600	2.2	12.9	54.5	30.1	.0	.0	.0	8.5	100.0	93
1200	4.6	9.8	56.2	29.4	.0	.0	.0	8.2	100.0	194
1800	12.3	11.5	54.2	21.9	.0	.0	.0	7.2	100.0	96
TOT	39	74	306	138	5	0	0	7.7		562
PCT	6.9	13.2	54.4	24.6	.9	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.7	1.3	1.7	1.7		4.7
E	12.1	10.4	9.6	.0		3.6
SE	9.2	15.4	9.6	1.7		4.0
S	5.4	2.9	.8	.0		2.4
SW	.0	3.3	.0	.0		3.3
W	.0	2.5	1.7	1.7		5.2
NW	1.7	2.5	.0	.0		1.8
VAR	.0	.0	.0	.0		.0
CALM	1.7	.0	.0	1.7		5.0
TOT OBS	19	23	14	4	60	3.7
TOT PCT	31.7	38.3	23.3	6.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	.0	2.9
E	.0	.0	.0	1.7	1.3	.0	.8	.0	.0	.0	.0	28.3
SE	.0	.0	.0	.0	2.1	.0	.8	.0	.0	.0	.0	32.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
W	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	2.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
TOT OBS	19	23	14	4	5	1	1	0	0	0	32	60
TOT PCT	31.7	38.3	23.3	6.7	8.3	1.7	1.7	.0	.0	.0	86.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>2000	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9
>1000	9.8	9.8	11.5	11.5	13.1	13.1	13.1	13.1
>600	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
>300	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
>150	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
>0	9.8	9.8	13.1	13.1	14.8	14.8	14.8	14.8
TOTAL	6	6	8	8	9	9	9	9

TOTAL NUMBER OF OBS: 61

PCT FREQ NM <5/8: 86.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
6.1	13.6	22.7	25.8	13.6	3.0	7.6	3.0	4.5	.0	66

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1896-1969

APRIL

AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	1.4
	TOT %	.0	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	2.2
5<10	PCP	.0	.0	2.5	1.1	.0	.4	.4	.7	.0	.0	.0	5.1
	NO PCP	.0	.0	13.4	5.1	1.1	.0	1.4	.7	.0	.0	.0	21.7
	TOT %	.0	.0	15.9	6.2	1.1	.4	1.8	1.4	.0	.0	.0	26.8
10+	PCP	.0	.7	1.8	.4	.0	.0	.0	.0	.0	.0	.0	2.9
	NO PCP	1.4	1.3	22.6	23.9	6.5	1.4	3.3	2.5	.0	5.1	.0	68.1
	TOT %	1.4	2.0	24.5	24.3	6.5	1.4	3.3	2.5	.0	5.1	.0	71.0
TOT OBS													138
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	
	11-21	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.8	.0	.4	.0	.4	.0	.0	.0	.0	2.0
5<10	0-3	.0	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	
	4-10	.2	.0	6.2	2.8	.2	.2	1.8	.6	.0	.0	.0	12.0
	11-21	.0	.0	2.8	1.2	.0	.0	.0	.4	.0	.0	.0	4.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	9.0	4.0	.6	.2	2.0	1.7	.0	.0	.0	17.2
10+	0-3	1.4	1.7	1.8	3.1	1.5	.6	1.4	.4	.0	5.2	.0	17.2
	4-10	1.6	2.4	19.8	14.1	2.5	1.0	4.0	2.2	.0	.0	.0	47.6
	11-21	.0	.2	6.0	6.6	1.2	.4	.4	.4	.0	.0	.0	13.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.0	4.3	27.7	23.8	5.2	2.0	5.8	3.0	.0	5.2	.0	80.0
TOT OBS													250
TOT PCT													100.0

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969AREA 0012 SOUTHEAST JAVA
8.9S 114.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 5/8$ ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.1	14.3	.0	7.1	.0	.0	.0	28.6	71.4	14
06009	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	10.5	89.5	19
12015	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	5.9	94.1	17
18021	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	15.4	84.6	13
TOT	0	0	0	1	5	2	1	0	0	0	9	94	63
PCT	.0	.0	.0	1.6	7.9	3.2	1.6	.0	.0	.0	14.4	89.7	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	$< 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	5.7	22.9	71.4	70
06009	.0	.0	.0	2.2	15.2	82.6	46
12015	.0	.0	2.3	.0	20.5	77.3	88
18021	.0	1.9	.0	.0	11.5	86.5	52
TOT	0	1	2	5	47	201	256
PCT	.0	.4	.8	2.0	18.4	78.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH $< 5/8$ AND 5+	TOTAL OBS
00003	.0	.0	15.4	15.4	69.2	13
06009	.0	.0	.0	10.5	89.5	19
12015	.0	.0	.0	6.3	93.8	16
18021	.0	7.7	7.7	7.7	84.6	13
TOT	0	1	3	6	52	61
PCT	.0	1.6	4.9	9.8	85.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	2.2	.0	.0	.0	2	2.2
85/89	.0	.0	.0	.0	4.3	12.0	4.3	.0	19	20.7
80/84	.0	.0	.0	.0	2.2	15.3	48.9	6.5	68	73.9
75/79	.0	.0	.0	.0	.0	.0	1.1	1.1	2	2.2
70/74	.0	.0	.0	.0	.0	.0	1.1	.0	1	1.1
TOTAL	0	0	0	0	8	26	51	7	92	100.0
PCT	.0	.0	.0	.0	8.7	28.3	55.4	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.0
85	.0	.0	9.0	5.7	2.7	1.1	.5	.5	.0	1.1
80	.0	2.4	33.2	23.9	2.4	.5	2.7	4.3	.0	4.3
75	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0
70	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0
90	.0	3.5	42.9	31.0	5.2	1.6	4.3	6.0	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	87	84	80	77	76	83.5	179
06009	91	90	88	84	82	77	77	84.5	94
12015	86	85	85	83	80	77	77	82.7	192
18021	85	84	84	82	79	73	73	81.5	96
TOT	91	88	87	83	80	77	73	83.0	561

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	10.3	20.7	51.7	17.2	.2	.2	29	29
06009	.0	.0	21.1	47.4	31.6	.0	.0	.0	76	19
12015	.0	.0	7.1	28.6	60.7	3.6	.0	.0	80	28
18021	.0	.0	4.8	19.0	66.7	9.3	.0	.0	83	21
TOT	0	0	10	27	52	8	0	0	97	

APRIL

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1856-1969

TABLE 17

AREA 0012 SOUTHEAST JAVA
8.95 114.3EPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
7/8	.0	.0	.0	.9	.0	1	.0	.9
5	.0	.0	.0	.0	.9	1	.0	.9
4	.0	.0	.9	.9	.9	3	.0	2.8
3	.0	.9	.0	3.7	.0	5	.0	4.6
2	.0	.0	9.3	.9	.0	11	2.8	7.4
1	.0	.9	8.3	4.6	.0	15	1.9	12.0
0	.9	.0	18.5	4.6	.0	26	.9	23.1
-1	.0	.9	12.0	.9	.0	15	.0	13.9
-2	.0	.9	12.0	.9	.0	15	.0	13.9
-3	.0	.9	3.7	.9	.0	6	.0	5.6
-4	.0	1.9	4.6	.0	.0	7	.0	6.5
-5	.0	.0	2.8	.0	.0	3	.0	2.8
TOTAL	1	7	78	20	2	108	6	102
PCT	.9	6.5	72.2	18.9	1.9	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.8	3.3	.0	.0	.0	.0	4.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.8	3.3	.0	.0	.0	.0	4.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.8	3.3	.0	.0	.0	.0	4.2
1-2	2.5	11.7	.0	.0	.0	.0	14.2	.0	13.0	.0	.0	.0	.0	15.0
3-4	.0	15.0	3.3	.0	.0	.0	18.3	.0	3.0	3.3	.0	.0	.0	8.3
5-6	.0	6.7	.0	.0	.0	.0	6.7	.0	.8	10.0	.0	.0	.0	10.8
7	.0	.0	5.8	.0	.0	.0	5.8	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	33.3	9.2	.0	.0	.0	45.0	.8	24.2	14.2	.0	.0	.0	39.2

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0012 SOUTHEAST JAVA
8.95 114.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	2.5	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.3	3.3	.0	.0	.0	.0	6.7	
1-2	3.3	36.7	.0	.0	.0	.0	40.0	
3-4	.0	25.0	6.7	.0	.0	.0	26.7	
5-6	.0	10.0	10.0	.0	.0	.0	20.0	
7	.0	.0	6.7	.0	.0	.0	6.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	70.0	23.3	.0	.0	.0	100.0	30

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.0	18.4	18.4	12.2	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
6-7	.0	4.1	6.1	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
8-9	.0	.0	2.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	6.1	4.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
TOTAL	4	14	15	12	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	3
PCT	8.2	28.6	30.6	24.5	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1880-1971AREA 0012 SOUTHEAST JAVA
8.75 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA				
WIND DIR	RAIN	RAIN CHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0				
NE	5.6	.0	.0	.0	.0	.0	.0	5.6	.0	.0	5.6	.0	.0	.0	88.7				
E	1.0	6.2	.0	.0	.0	.0	.0	7.2	1.0	2.1	1.0	.0	.0	.0	88.7				
SE	.9	.0	.0	.0	.0	.0	.0	.9	.9	.0	.9	.0	3.6	.0	93.7				
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0				
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0				
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0				
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	50.0				
TOT PCT TOT OBS:	1.4	2.1	.0	.0	.0	.0	.0	3.5	1.4	.7	2.1	.0	1.4	.0	90.9				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	6.8	.0	2.3	.0	88.6
06009	.0	4.5	.0	.0	.0	.0	.0	4.5	9.1	.0	.0	.0	.0	.0	86.4
12019	2.1	2.1	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	2.1	.0	93.8
18021	3.2	.0	.0	.0	.0	.0	.0	3.2	.0	3.2	.0	.0	.0	.0	93.3
TOT PCT TOT OBS:	1.4 145	2.1	.0	.0	.0	.0	.0	3.4	1.4	.7	2.1	.0	1.4	.0	91.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	1.3	.0	.0	.0	.0		1.9	5.7	.8	4.1	.0	.0	1.1	1.0	.0	4.3	
NE	1.5	5.0	1.3	.1	.0	.0		7.9	7.3	10.3	10.6	16.7	5.6	4.6	4.8	10.0	8.0	
E	2.7	21.3	11.0	3.1	.1	.0		38.3	10.4	50.8	35.9	37.5	41.7	32.3	37.5	33.8	37.1	
SE	3.2	18.6	12.9	.6	.1	.0		35.4	9.8	29.4	32.9	29.2	41.7	47.0	30.8	32.5	29.3	
S	1.2	6.0	.9	.0	.0	.0		8.1	6.4	2.4	7.1	8.3	10.2	11.7	8.7	13.8	6.4	
SW	.6	1.2	.1	.0	.0	.0		1.9	6.0	1.6	.6	.0	.9	1.1	3.8	.0	5.0	
W	.5	.4	.1	.0	.0	.0		1.1	5.5	.0	2.9	.0	.0	.0	2.9	.0	1.4	
NW	.0	1.6	.2	.0	.0	.0		1.8	8.2	1.6	1.2	.0	.0	1.1	6.7	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5							3.6	.0	3.2	4.7	8.3	.0	1.1	3.8	10.0	5.7	
TOT OBS	62	249	119	17	1	0	448		9.0	63	85	12	54	92	52	20	70	
TOT PCT	13.8	55.6	26.6	3.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.1	.8	.0	.0	.0		1.9	5.7	2.7	.0	1.0	3.3	
NE	3.9	3.9	.0	.1	.0		7.9	7.3	10.5	7.6	4.7	8.9	
E	12.1	20.3	4.8	1.1	.0		38.3	10.4	42.2	40.9	34.2	36.4	
SE	11.2	20.0	4.1	.1	.0		35.4	9.8	31.4	39.4	41.1	30.0	
S	5.2	2.9	.0	.0	.0		8.1	6.4	5.1	9.8	10.6	8.1	
SW	1.1	.8	.0	.0	.0		1.9	6.0	1.0	.8	2.1	3.9	
W	.7	.4	.0	.0	.0		1.1	5.5	1.7	.0	1.0	1.1	
NW	.6	1.2	.0	.0	.0		1.8	8.2	1.6	.0	3.1	1.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.6						3.6	.0	4.1	1.5	2.1	6.7	
TOT OBS	177	225	40	6	0	448		9.0	148	86	144	90	
TOT PCT	39.3	50.2	8.9	1.3	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

MAY

AREA 0012 SOUTHEAST JAVA
8.75 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
00003	4.1	14.2	52.0	25.0	4.1	.7	.0	.0	9.1	100.0	148
06009	1.5	1.5	63.6	30.3	3.0	.0	.0	.0	9.4	100.0	66
12015	2.1	9.7	52.8	31.3	4.2	.0	.0	.0	9.2	100.0	144
18021	6.7	11.1	60.0	18.9	3.3	.0	.0	.0	8.0	100.0	90
TOT	16	46	249	119	17	1	0	9.0			448
PCT	3.6	10.3	55.6	26.6	3.8	.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBSCD	MEAN CLOUD COVER
N	.0	.0	2.5	.0		5.0
NE	9.0	2.5	5.0	.0		3.8
E	13.1	10.0	9.4	5.0		3.8
SE	16.9	7.5	6.3	.0		2.9
S	2.5	9.0	4.4	.0		3.2
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	2.5	2.5	.0		4.0
TOT OBS	15	11	12	2	40	3.5
TOT PCT	37.5	27.5	30.0	5.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	10.0
E	.0	.0	.0	.0	2.5	.0	4.4	.0	.0	.0	.0	30.6
SE	.0	.0	.0	2.5	.0	.0	.6	.0	.0	.0	.0	27.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
TOT OBS	0	0	0	1	2	0	3	0	0	0	34	40
TOT PCT	.0	.0	.0	2.5	5.0	.0	7.5	.0	.0	.0	85.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR			VSBY (NH)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	5.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
OR >2000	5.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
OR >1000	10.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
OR >600	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
OR >300	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
OR >150	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
OR >0	12.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
TOTAL	5	6	6	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 40

PCT FREQ NH <5/8: 85.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	2.1	14.6	43.8	20.8	6.3	8.3	2.1	.0	2.1	.0	48

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1880-1971

MAY

AREA 0012 SOUTHEAST JAVA
8.75 114.98

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.4
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.4
1<2	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.7	1.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	1.4
	TOT %	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	1.4
5<10	PCP	.0	.0	2.4	.3	.0	.0	.0	.0	.0	.0	.0	2.8
	NO PCP	.7	4.9	10.5	16.4	1.7	.0	.7	.0	.0	.0	.0	35.0
	TOT %	.7	4.9	12.9	16.8	1.7	.0	.7	.0	.0	.0	.0	37.8
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.1	6.1	20.3	20.8	4.5	.7	.7	.7	.0	2.1	58.0	
	TOT %	2.1	6.1	20.3	20.8	4.5	.7	.7	.7	.0	2.1	58.0	
TOT OBS													
TOT PCT													
2.8 12.4 33.9 39.0 6.3 .7 1.4 .7 .0 2.8 100.0													

143

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.5	.0	.5	.5	.0	.0	.0	.0	.0	.5	1.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.9
5<10	0-3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	
	4-10	.5	3.2	3.9	3.7	1.2	.0	.5	.0	.0	.0	13.0	
	11-21	.0	.0	3.2	7.4	.0	.0	.0	.0	.0	.0	10.6	
	22+	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	3.2	8.6	11.1	1.2	.0	.5	.0	.0	.0	25.0	
10+	0-3	.2	2.1	2.0	3.2	.7	.2	.2	.0	.0	3.2	13.9	
	4-10	1.6	3.0	16.7	12.7	4.6	.9	.2	.5	.0	.0	40.3	
	11-21	.0	.3	6.4	9.3	.7	.2	.2	.0	.0	.0	17.1	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	1.9	5.4	25.0	27.7	6.0	1.4	.7	.5	.0	3.2	71.8	
TOT OBS													
TOT PCT													
2.3 9.6 34.0 39.7 7.6 1.4 1.2 .5 .0 3.7 100.0													

216

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1860-1971

MAY

AREA 0012 SOUTHEAST JAVA
8.75 114.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $< 3/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 3/8$ ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	16.7	.0	8.3	.0	.0	.0	25.0	75.0	12
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	12
12015	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	20.0	80.0	10
18021	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	7.1	92.9	14
TOT	0	0	0	1	2	0	3	0	0	0	6	42	48
PCT	.0	.0	.0	2.1	4.2	.0	6.3	.0	.0	.0	12.5	87.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	$< 1/2$	$1/2 < 1$	$1 < 2$	$2 < 5$	$5 < 10$	$10 < 20$	TOTAL OBS
00003	.0	3.1	1.5	.0	29.2	66.2	65
06009	.0	.0	.0	.0	22.2	77.8	36
12015	.0	.0	1.4	2.8	33.6	62.0	71
18021	.0	.0	2.2	.0	10.9	87.0	46
TOT	0	2	3	2	56	155	218
PCT	.0	.9	1.4	.9	25.7	71.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	< 150 < 500	$150 < 600$ < 1	$600 < 1000$ < 3	$1000 < 10000$ AND 5+	NH $< 3/8$ AND 5+	TOTAL OBS
00003	.0	.0	.0	27.3	72.7	11
06009	.0	.0	.0	.0	100.0	9
12015	.0	.0	11.1	11.1	77.8	9
18021	.0	.0	.0	9.1	90.9	11
TOT	0	0	1	5	34	40
PCT	.0	.0	2.5	12.5	85.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.2	5.6	.0	1.1	8	8.9
80/84	.0	.0	.0	1.1	2.2	33.3	37.8	7.8	74	82.2
75/79	.0	.0	.0	.0	.0	1.1	5.6	2.2	8	8.9
TOTAL	0	0	0	1	4	36	39	10	90	100.0
PCT	.0	.0	.0	1.1	4.4	40.0	43.3	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	1.7	4.4	1.1	.0	.0	.0	.0	.0	1.1
2.2	12.8	29.7	32.5	2.2	.0	.0	.0	.0	2.2
1.7	.6	2.2	2.2	.0	.0	1.1	.0	.0	1.1
4.4	15.0	36.4	35.8	2.2	.0	1.1	.6	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	86	83	79	77	72	82.6	145
06009	89	88	87	83	80	78	78	83.4	63
12015	88	86	85	82	79	78	78	81.9	139
18021	84	83	83	81	78	76	76	81.0	90
TOT	89	88	86	82	78	77	72	82.2	437

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.9	35.3	52.9	8.8	80	34
06009	.0	.0	13.3	60.0	26.7	.0	75	15
12015	.0	.0	4.8	42.9	38.1	14.3	81	21
18021	.0	4.5	.0	36.4	40.9	18.2	82	22
TOT	0	1	4	38	39	10	80	92

PERIOD: (PRIMARY) 1867-1971
(OVER-ALL) 1860-1971

MAY

TABLE 17

AREA 0012 SOUTHEAST JAVA
8.75 114.3E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT FOG	N FOG	NO FOG
7/8	.0	.0	.9	.0	1	.0	.9
6	.0	.0	.0	.9	1	.0	.9
5	.0	.0	.9	.0	1	.0	.9
4	.0	2.8	.9	.0	4	.0	3.7
3	.0	2.8	1.9	.0	5	.0	4.6
2	.0	7.4	1.9	.0	10	.0	9.3
1	.0	5.6	2.8	.0	9	.0	8.3
0	3.7	25.0	2.8	.0	34	1.9	29.6
-1	.9	14.8	.0	.0	17	.0	15.7
-2	3.7	9.3	.0	.0	14	.0	13.0
-3	2.8	1.9	.9	.0	6	.0	5.6
-4	1.9	1.9	.0	.0	4	.0	3.7
-5	.9	.9	.0	.0	2	.0	1.9
TOTAL	15	78	14	1	108	1.9	106
PCT	13.9	72.2	13.0	.9	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.0	4.0	.0	.0	.0	.0	7.0	1.0	8.0	.0	.0	.0	.0	9.0
1-2	.0	8.0	.0	.0	.0	.0	8.0	.0	8.0	.0	.0	.0	.0	8.0
3-4	.0	11.0	8.0	.0	.0	.0	19.0	.0	13.0	8.0	.0	.0	.0	21.0
5-6	.0	4.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	4.0	.0	.0	12.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	27.0	8.0	.0	.0	.0	38.0	1.0	29.0	16.0	4.0	.0	.0	50.0

PERIOD: (OVER-ALL) 1963-1971

MAY

AREA 0012, SOUTHEAST JAVA
8.75 114.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	4.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	12.0	16.0	.0	.0	.0	.0	28.0	085
1-2	.0	16.0	.0	.0	.0	.0	16.0	
3-4	.0	24.0	16.0	.0	.0	.0	40.0	
5-6	.0	4.0	.0	.0	.0	.0	4.0	
7	.0	.0	8.0	4.0	.0	.0	12.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.0	60.0	24.0	4.0	.0	.0	100.0	25

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.6	11.4	17.1	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	2
6-7	.0	5.7	5.7	14.3	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
8-9	.0	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	0
TOTAL	7	6	10	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	25	3
PCT	20.0	17.1	28.6	20.0	11.4	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

JUNE

AREA 0012 SOUTHEAST JAVA
8.85 114.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	33.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	1.8	4.4	.0	1.8	.0	89.9
SE	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	4.2	.0	4.2	.0	90.7
S	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0	80.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	91.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	1.3	.0	.0	.0	.0	.0	1.3	.6	1.3	4.4	.0	2.5	.0	90.0
TOT OBS:	160														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00Z03	.0	4.0	.0	.0	.0	.0	.0	4.0	2.0	.0	6.0	.0	2.0	.0	86.0
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	3.1	.0	90.6
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.1	.0	4.1	.0	87.8
18Z21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	97.0
TOT PCT TOT OBS:	.0	1.2	.0	.0	.0	.0	.0	1.2	.6	1.2	4.9	.0	2.4	.0	89.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.5	.9	.0	.0	.0	.0	1.4	4.9	3.0	.6	.0	.0	1.2	.9	4.5	1.4		
NE	.6	1.3	1.3	.0	.0	.0	3.3	8.7	3.4	4.2	.0	1.6	5.2	3.7	2.3	2.1		
E	1.2	18.3	18.9	1.7	.4	.0	40.4	11.5	33.5	49.0	43.4	43.7	37.2	38.9	50.0	37.1		
SE	.9	20.7	18.4	1.1	.0	.0	39.1	10.9	35.1	39.0	51.3	42.1	43.0	37.0	38.6	35.0		
S	.5	4.6	1.9	.2	.0	.0	7.2	9.5	8.8	1.9	5.3	7.1	7.6	7.4	4.5	12.1		
SW	.5	2.7	.5	.0	.0	.0	3.7	7.2	5.2	1.3	.0	2.4	4.6	4.6	.0	6.4		
W	.0	.7	.0	.0	.0	.0	.7	7.8	3.0	.0	.0	.0	.0	1.9	.0	.0		
NW	.3	.4	.0	.0	.0	.0	.7	3.7	3.0	.0	.0	.0	.0	.0	.0	1.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.4						3.4	.0	4.9	3.9	.0	3.2	1.2	5.6	.0	4.3		
TOT OBS	37	233	183	14	2	0	469		82	77	19	63	82	54	22	70		
TOT PCT	7.9	49.7	39.0	3.0	.4	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	1.0	.4	.0	.0	.0	1.4	4.9	1.9	.0	1.1	2.2		
NE	1.3	1.8	.2	.0	.0	3.3	8.7	3.8	1.2	4.6	2.2		
E	9.2	23.4	7.2	.6	.0	40.4	11.5	41.0	43.6	37.9	40.2		
SE	7.0	26.2	5.9	.0	.0	39.1	10.9	36.9	44.2	40.6	35.9		
S	2.7	3.4	1.2	.0	.0	7.2	9.5	5.5	6.7	7.5	10.3		
SW	2.0	1.7	.1	.0	.0	3.7	7.2	3.3	1.8	4.6	4.9		
W	.2	.5	.0	.0	.0	.7	7.8	1.6	.0	.7	.0		
NW	.7	.0	.0	.0	.0	.7	3.7	1.6	.0	.0	1.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.4					3.4	.0	4.4	2.4	2.9	3.3		
TOT OBS	129	269	68	3	0	469	10.3	159	82	136	92		
TOT PCT	27.5	57.4	14.5	.6	.0		100.0	100.0	100.0	100.0	100.0		

AREA C012 SOUTHEAST JAVA
8.05 114.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND			SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOT L O/S
		1-3	4-10	11-21	22-33	34-47					
0000Z	4.4	6.9	46.5	38.4	3.1	.0	.0	10.5	100.0	157	
0600Z	2.4	3.7	39.0	51.2	3.7	.0	.0	11.5	100.0	86	
1201Z	2.9	2.9	55.1	36.0	2.9	.0	.0	10.0	100.0	136	
1801Z	1.3	3.3	47.0	37.2	2.2	1.1	.0	8.0	100.0	97	
TOT	16	21	233	183	14	2	.0	10.3		469	
PCT	3.4	4.5	49.7	39.0	3.0	.4	.0	100.0			

TABLE 5

PCT FPEO 7F TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION:

BY WIND DIRECTION						
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.3	.0	.0		3.0
NE	.6	.3	.0	.0		1.6
E	20.9	13.6	8.5	.0		7.0
SE	16.5	15.2	6.6	2.5		3.1
S	5.1	.0	1.3	2.2		4.1
SW	1.3	1.3	.0	.3		2.1
W	1.3	.0	1.3	.0		3.0
NW	.0	.0	.0	.0		.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	36	25	14		79	
TOT PCT	45.6	31.6	17.7	5.1	100.0	3.1

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > /8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

[illegible]

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM ≥4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= DR ≥10	= DR ≥5	= DR ≥2	= DR ≥1	= DR ≥1/2	= DR ≥1/4	= DR ≥50YD	= DR ≥0
= DR ≥6570	.0	.0	.0	.0	.0	.0	.0	.0
= DR ≥5000	.0	.0	.0	.0	.0	.0	.0	.0
= DR ≥3500	2.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
= DR ≥2000	6.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0
= DR ≥1000	9.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8
= DR ≥600	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
= DR ≥300	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
= DR ≥150	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
= DR ≥0	10.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
TOTAL	8	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 79

PCT FREQ 4H 45/81 85.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	05°C/D	TOTAL 05
6.0	19.3	34.9	19.3	6.0	4.8	3.6	1.2	4.8	.0	83

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

JUNE

AREA 0012 SOUTHEAST JAVA
8.85 114.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.9	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.3	1.3	9.2	17.3	2.3	3.0	1.3	.3	.0	3.8	38.8	
	TOT %	.3	1.3	9.5	17.7	2.3	3.0	1.3	.3	.0	3.8	39.4	
10+	PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.6	1.1	25.0	25.5	3.9	.0	.0	.0	.0	.0	36.9	
	TOT %	.6	1.1	25.5	25.6	3.9	.0	.0	.0	.0	.0	37.5	
TOT OBS													160
TOT PCT		.9	3.0	35.6	45.2	6.3	3.8	1.3	.3	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.3	.9	.0	.0	.0	.0	.0	.0	1.3	
	11-21	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.6	1.3	.4	.0	.0	.0	.0	.0	2.6	
2<5	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	.2	.0	.2	.2	.0	.0	.0	.2	.0	2.6	3.3	
	4-10	.0	.4	4.2	3.8	1.2	2.1	.9	.0	.0	.0	12.6	
	11-21	.0	.4	2.2	7.4	.4	.0	.0	.0	.0	.0	10.4	
	22+	.0	.0	.2	1.1	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.2	.9	6.8	12.4	1.6	2.1	.9	.2	.0	2.6	27.7	
10+	0-3	.2	.2	1.3	1.1	.5	.1	.0	.0	.0	1.7	5.2	
	4-10	.4	1.1	15.3	17.2	4.3	1.5	.0	.0	.0	.0	39.8	
	11-21	.0	.1	10.9	9.3	1.5	.6	.0	.0	.0	.0	22.5	
	22+	.0	.0	1.0	.3	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.6	1.4	28.5	27.9	6.4	2.3	.0	.0	.0	1.7	68.8	
TOT OBS													231
TOT PCT		.9	2.9	38.4	41.7	8.4	4.3	.9	.2	.0	4.3	100.0	

JUNE

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969AREA 0012 SOUTHEAST JAVA
8.85 114.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 6999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.3	4.3	4.3	4.3	.0	.0	.0	17.4	82.6	23
06009	.0	.0	.0	.0	10.0	5.0	.0	.0	.0	.0	15.0	85.0	20
12015	.0	.0	.0	.0	.0	11.8	5.9	.0	.0	.0	17.6	82.4	17
18021	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5	95.5	22
TOT	0	0	0	1	3	4	3	0	0	0	11	71	82
PCT	.0	.0	.0	1.2	3.7	4.9	3.7	.0	.0	.0	13.4	86.6	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	2.8	.0	39.4	57.7	71
06009	.0	.0	4.7	.0	18.6	76.7	43
12015	.0	.0	2.8	2.8	32.4	62.0	71
18021	.0	.0	.0	.0	18.0	82.0	50
TOT	0	0	6	2	68	159	235
PCT	.0	.0	2.6	.9	26.9	67.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) A/D/DR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.3	13.0	82.6	23
06009	.0	.0	.0	16.7	83.3	18
12015	.0	.0	.0	17.6	82.4	17
18021	.0	.0	.0	5.0	95.0	20
TOT	0	0	1	10	67	78
PCT	.0	.0	1.3	12.8	85.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.9	.9	.0	.9	3	2.6
80/84	.0	.0	.0	.0	6.1	21.9	33.3	13.2	85	74.6
75/79	.0	.0	.0	.0	.9	7.9	8.8	5.3	26	22.8
TOTAL	0	0	0	0	9	35	48	22	114	100.0
PCT	.0	.0	.0	.0	7.9	30.7	42.1	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.1	1.5	.0	.0	.0	.0	.0	.0	.0
1.3	1.1	30.0	32.5	3.5	1.3	0	.4	.0	.0	4.4
.0	.4	7.9	12.7	.9	.9	.0	.0	.0	.0	.0
1.3	1.5	39.0	46.7	4.4	2.2	.0	.4	.0	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	85	81	77	75	73	80.7	152
06009	93	92	87	82	77	75	75	81.7	80
12015	92	87	83	80	77	75	73	80.3	134
18021	83	82	82	79	77	75	75	79.2	91
TOT	93	87	84	80	77	75	73	80.5	457

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.6	30.6	44.4	19.4	82	36
06009	.0	.0	18.2	27.3	40.9	13.6	79	22
12015	.0	.0	3.0	30.3	39.4	27.3	83	33
18021	.0	.0	7.4	33.3	40.7	18.5	82	27
TOT	0	0	9	36	49	24	82	118

PERIOD: (PRIMARY) 1880-1969
(OVER-ALL) 1857-1969

JUNE

TABLE 17

AREA 0012 SOUTHEAST JAVA
8.85 114.4E

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	% FOG	% FOG
7/8	.0	.0	.0	.0	.7	1	.0	.7
5	.0	.7	.0	.7	.0	2	.0	1.4
4	.0	.7	.7	1.4	.0	4	.7	2.1
3	.0	.0	1.4	1.4	.0	4	.0	2.9
2	.0	1.4	5.7	.0	.0	10	1.4	5.7
1	.0	7.1	8.6	.7	.0	23	.7	15.7
0	2.1	6.4	13.6	.7	.0	32	2.1	20.7
-1	.0	5.0	7.9	.7	.0	19	.0	13.0
-2	1.4	5.7	5.0	.0	.0	17	.7	11.4
-3	.0	5.7	1.4	.0	.0	10	.0	7.1
-4	.7	5.0	.7	.0	.0	9	.0	6.4
-5	.7	1.4	.0	.0	.0	3	.0	2.1
-9/-10	.0	2.9	.0	.0	.0	4	.0	2.9
-11/-13	1.4	.0	.0	.0	.0	2	.0	1.4
TOTAL	9		63		1	140		132
PCT	6.4	42.1	45.0	5.7	.7	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.8	.0	.0	.0	.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	3.0
1-2	.0	14.4	.0	.0	.0	.0	14.4	.0	6.8	6.1	.0	.0	.0	12.9
3-4	.0	3.0	10.6	.0	.0	.0	13.6	.0	3.0	4.5	.0	.0	.0	7.6
5-6	.0	.0	17.4	2.3	.0	.0	19.7	.0	.0	.0	.8	.0	.0	.8
7	.0	.0	9.9	.0	.0	.0	9.9	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	1.5	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.4	37.9	6.8	.0	.0	62.1	3.0	9.8	12.9	2.3	.0	.0	28.0

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0012 SOUTHEAST JAVA
8.85 114.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	3.0	3.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	3.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	3.0	.0	.0	.0	.0	.0	3.0	3.0
1-2	.0	24.2	6.1	.0	.0	.0	30.3	30.3
3-4	.0	6.1	13.2	.0	.0	.0	19.3	19.3
5-6	.0	3.0	21.2	3.0	.0	.0	27.2	27.2
7	.0	.0	12.1	.0	.0	.0	12.1	12.1
8-9	.0	.0	.0	6.1	.0	.0	6.1	6.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	33.3	54.5	9.1	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	13.6	8.5	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	3
6-7	.0	.0	11.9	6.8	5.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
8-9	.0	.0	.0	.0	22.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
10-11	.0	.0	.0	1.7	6.8	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	1
14DET	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	5
TOTAL	1	9	13	6	20	7	2	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	1.7	15.3	22.0	10.2	33.9	11.9	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

JULY

AREA 0012 SOUTHEAST JAVA
8.85 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN CLMR	DRZL	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	9.1	.0	.0	.0	.0	.0	.0	9.1	.0	18.2	.0	.0	18.2	.0	.0	63.6
E	1.0	1.5	.0	.0	.0	.0	.0	2.6	.0	4.1	6.1	.0	4.1	.0	.0	84.2
SE	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	5.5	.0	1.1	.0	.0	93.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.6	.0	16.7	.0	.0	72.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6		.0	.0	.0	.0	.0	1.2	.0	2.4	5.4	.0	4.2	.0	.0	87.5
TOT OBS:	168															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.9	.0	8.9	.0	80.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	5.1	.0	87.2
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	97.8
18021	2.4	2.4	.0	.0	.0	.0	.0	4.8	.0	7.1	4.8	.0	2.4	.0	83.3
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.2	.0	2.3	5.3	.0	4.7	.0	87.1
TOT OBS:	171														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+ TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.0	.0	.2	.0	.0	.0	.0	.2	12.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
NE	.4	.9	.7	.0	.0	.0	.0	2.0	8.2	3.8	2.3	3.7	1.9	1.4	1.1	1.9	1.9	1.0
E	1.0	14.0	21.2	1.2	.3	.0	.0	37.6	12.2	40.1	36.2	37.0	39.6	33.9	35.4	43.3	39.6	39.6
SE	1.1	24.5	20.5	1.8	.3	.0	.0	48.1	11.0	46.2	55.2	55.6	40.3	52.3	47.8	48.1	43.2	43.2
S	.8	4.5	2.0	.2	.0	.0	.0	7.5	8.4	6.6	5.2	3.7	11.7	6.3	10.1	6.7	7.9	7.9
SW	.7	1.7	.7	.0	.0	.0	.0	3.0	7.6	2.2	1.1	.0	4.5	3.3	3.4	.0	5.2	5.2
W	.0	.2	.0	.0	.0	.0	.0	.2	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.0	.0	.0	1.3	2.8	2.2	.0	3.1	3.1
TOT OBS	33	274	271	19	3	0	000	600	10.9	91	87	27	77	107	89	26	96	96
TOT PCT	9.5	45.7	49.7	3.2	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+ TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40							00	06	12	18
N	.0	.2	.0	.0	.0	.0	.0	.2	12.0	.0	.0	.0	.0	.0
NE	.8	1.3	.0	.0	.0	.0	.0	2.0	8.2	3.1	2.4	1.3	1.2	1.2
E	5.9	23.1	8.0	.6	.0	.0	.0	37.6	12.2	38.2	38.9	34.6	40.4	40.4
SE	9.7	32.3	5.3	.8	.0	.0	.0	48.1	11.0	50.6	44.2	50.3	44.3	44.3
S	3.3	3.9	.3	.0	.0	.0	.0	7.5	8.4	5.9	9.6	8.0	7.2	7.2
SW	1.4	1.4	.2	.0	.0	.0	.0	3.0	7.6	1.7	3.4	3.3	4.1	4.1
W	.2	.0	.0	.0	.0	.0	.0	.2	5.0	.0	.3	.0	.4	.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.0	1.0	2.6	2.5	2.5
TOT OBS	136	273	83	8	0	000		600	10.9	178	104	196	122	122
TOT PCT	22.7	62.2	13.8	1.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

JULY

AREA 0012 SOUTHEAST JAVA
8.85 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	.0	3.4	42.1	48.9	5.6	.0	.0	11.7	100.0	178
06009	1.0	2.9	44.2	47.1	4.8	.0	.0	11.3	100.0	104
12015	2.6	6.1	47.4	41.8	1.0	1.0	.0	10.3	100.0	196
18021	2.5	2.5	49.2	43.4	1.6	.8	.0	10.4	100.0	122
TOT	9	24	274	271	19	3	0	10.9		600
PCT	1.5	4.0	45.7	45.2	3.2	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.1	.0	6.0	
NE	.0	.0	.0	1.7	8.0	
E	16.1	6.0	4.9	2.3	3.2	
SE	29.3	12.9	14.7	2.9	3.2	
S	2.9	2.9	.0	.0	1.8	
SW	.0	.0	1.1	.0	6.0	
W	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	
CALM	.0	1.1	.0	.0	4.0	
TOT OBS	42	20	19	6	87	3.3
TOT PCT	48.3	23.0	21.8	6.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 294	300 499	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	
NE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	1.7	.9	1.1	1.1	.0	.0	.0	24.4	
SE	.0	.0	.0	1.7	8.3	.0	2.3	.0	.0	.0	47.4	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	
SW	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	4	8	2	4	0	0	0	0	87	
TOT PCT	.0	.0	.0	4.6	9.2	2.3	4.6	.0	.0	.0	79.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	3.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5
>2000	5.6	6.7	6.7	6.7	6.7	6.7	6.7	6.7
>1000	14.6	15.7	15.7	15.7	15.7	15.7	15.7	15.7
>600	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
>300	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
>150	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
>0	18.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2
TOTAL	16	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 89

PCT FREQ NH <5/8: 79.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.2	17.3	29.6	18.4	7.1	2.0	7.1	5.1	4.1	98

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

JULY

AREA 0012 SOUTHEAST JAVA
8.85 114.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	1.8	2.4	1.2	.0	.0	.0	.0	.0	5.4	5.4
	TOT %	.0	.0	1.8	2.4	1.2	.0	.0	.0	.0	.0	5.4	5.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.6	1.2	.6	.6	.0	.0	.0	.0	.0	3.0	3.0
	TOT %	.0	.6	1.2	.6	.6	.0	.0	.0	.0	.0	3.0	3.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.6	.0	.6	.6	.0	.0	.0	.0	1.8	1.8
	TOT %	.0	.0	.6	.0	.6	.6	.0	.0	.0	.0	1.8	1.8
5<10	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	1.6	5.8	11.6	3.6	1.2	.0	.0	.0	.0	23.8	23.8
	TOT %	.0	1.6	6.3	11.8	3.6	1.2	.0	.0	.0	.0	24.4	24.4
10+	PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.6	.7	19.0	39.1	4.8	.0	.0	.0	.0	.6	64.9	64.9
	TOT %	.6	1.0	19.3	39.1	4.8	.0	.0	.0	.0	.6	65.5	65.5
TOT OBS													168
TOT PCT													.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	1.1	1.4	.4	.0	.0	.0	.0	.0	2.8	2.8
	11-21	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	1.1	1.4	.7	.0	.0	.0	.0	.0	3.2	3.2
1<2	0-3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
	4-10	.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.7	.2	.2	.0	.0	.0	.0	.0	1.1	1.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.7	.4	.7	.0	.0	.0	.0	.0	2.1	2.1
2<5	0-3	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	1.1	1.1
	4-10	.0	.0	.3	.2	.4	.0	.0	.0	.0	.0	1.1	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.9	.2	.4	.4	.0	.0	.0	.4	2.1	2.1
5<10	0-3	.0	.4	.0	.0	.2	.2	.0	.0	.0	.0	.7	.7
	4-10	.0	.3	2.7	4.1	1.2	.5	.0	.0	.0	.0	8.9	8.9
	11-21	.0	.4	1.0	2.2	1.2	.2	.0	.0	.0	.0	5.0	5.0
	22+	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.0	1.0	3.7	7.0	2.7	.9	.1	.0	.0	.0	15.2	15.2
10+	0-3	.0	.2	.5	.7	.4	.0	.0	.0	.0	2.1	3.9	3.9
	4-10	.0	1.0	12.7	23.8	3.6	1.6	.2	.0	.0	.0	42.9	42.9
	11-21	.4	.0	11.1	17.0	.6	.7	.0	.0	.0	.0	29.3	29.3
	22+	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.7	.7
	TOT %	.4	1.2	24.3	41.9	5.0	2.3	.2	.0	.0	2.1	77.3	77.3
TOT OBS													282
TOT PCT													.4 100.0

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

TABLE 10

AREA 0012 SOUTHEAST JAVA
8.85 114.3EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 3/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 3/8$ ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.3	8.7	4.3	8.7	.0	.0	.0	26.1	73.9	23
06009	.0	.0	.0	7.1	7.1	3.6	7.1	.0	.0	.0	25.0	75.0	28
12015	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0	90.0	20
18021	.0	.0	.0	3.7	7.4	.0	.0	.0	.0	.0	11.1	88.9	27
TOT	0	0	0	4	8	2	4	0	0	0	18	80	98
PCT	.0	.0	.0	4.1	8.2	2.0	4.1	.0	.0	.0	18.4	81.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	$\leq 1/2$	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	6.4	3.8	2.6	16.7	70.5	78
06009	.0	5.0	3.7	1.9	7.4	81.5	54
12015	.0	.0	2.3	3.5	18.6	75.6	86
18021	.0	1.5	.0	.0	16.2	82.4	68
TOT	0	9	7	6	44	220	286
PCT	.0	3.1	2.4	2.1	15.4	76.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	≤ 150 ≤ 500	≤ 600 ≤ 1	≤ 1000 ≤ 5	$\leq 1000+$ AND 5+	NH $\leq 3/8$ AND 5+	TOTAL OBS
00003	.0	.0	4.8	23.8	71.4	21
06009	.0	.0	8.7	21.7	69.6	23
12015	.0	.0	.0	10.5	89.5	19
18021	.0	.0	3.8	7.7	88.5	26
TOT	0	0	4	14	71	89
PCT	.0	.0	4.5	15.7	79.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.2	.0	.0	.0	3	2.2
80/84	.0	.0	.0	1.4	6.5	19.4	7.2	1.4	30	36.0
75/79	.0	.0	.0	.0	4.3	20.9	24.5	11.5	85	61.2
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	2	13	39	44	19	139	100.0
PCT	.0	.0	.0	1.4	10.8	42.4	31.7	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.0	.0	.0	.7	.0	.0	.0	.0	.7
.7	1.1	13.5	18.5	2.5	.4	.0	.0	.0	.0
.0	1.8	17.1	34.5	7.7	.0	.0	.0	.0	.0
.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
.7	2.9	30.6	53.1	11.3	.7	.0	.0	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	84	82	79	76	75	74	78.9	177
06009	85	84	83	80	76	74	74	79.7	102
12015	88	84	81	78	74	73	73	77.8	195
18021	82	81	81	77	74	74	73	77.3	121
TOT	88	84	82	78	75	74	73	78.4	595

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.5	52.5	32.5	12.5	81	40		
06009	.0	5.6	25.0	41.7	19.4	8.3	75	36		
12015	.0	.0	9.4	34.4	40.6	15.6	81	32		
18021	.0	.0	5.7	40.0	37.1	17.1	81	35		
TOT	0	2	15	61	46	19	80	143		

JULY

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969AREA 0012 SOUTHEAST JAVA
8.85 114.32

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.7	1	.0	.7
5	.0	.0	1.5	1.5	4	.0	2.9
4	.0	2.2	1.5	.0	5	.0	3.7
3	.0	1.5	5.1	.0	9	.7	5.9
2	.7	3.7	3.7	.7	12	.0	8.8
1	1.5	7.4	1.5	.0	14	1.5	8.8
0	1.5	19.9	7.4	.0	39	.7	27.9
-1	.7	19.9	.7	.0	29	.7	20.6
-2	1.5	7.4	.0	.0	12	.0	8.8
-3	.0	.0	.7	.0	1	.0	.7
-4	1.5	2.2	.0	.0	5	.7	2.9
-5	.7	.7	.0	.0	2	.0	1.5
-6	.0	.7	.0	.0	1	.0	.7
-7/-8	.7	.0	.0	.0	1	.0	.7
-11/-13	.7	.0	.0	.0	1	.0	.7
TOTAL	13	89	30	4	136	6	130
PCT	9.6	65.4	22.1	2.9	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.0	.0	.0	.0	.0	.0	2.0	2.7	.7	.0	.0	.0	.0	.0	3.4
1-2	.0	2.7	4.1	.0	.0	.0	.0	6.8	.0	3.4	9.5	.0	.0	.0	.0	14.9
3-4	.0	2.0	15.5	.0	.0	.0	.0	17.6	.0	9.5	19.6	.0	.0	.0	.0	29.1
5-6	.0	.0	6.1	.0	.0	.0	.0	6.1	.0	.0	15.5	.0	.0	.0	.0	15.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	25.7	.0	.0	.0	.0	32.4	2.7	15.5	44.6	.0	.0	.0	.0	62.8

PERIOD: (OVER-ALL) 1963-1969

JULY

TABLE 18 (CONT)

AREA 0012 SOUTHEAST JAVA
8.85 114.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.7	2.7	.0	.0	.0	.0	5.4	085
1-2	.0	10.8	13.5	.0	.0	.0	24.3	
3-4	.0	13.5	35.1	.0	.0	.0	48.6	
5-6	.0	.0	21.6	.0	.0	.0	21.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	27.0	70.3	.0	.0	.0	100.0	37

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.6	9.5	14.3	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4GT
6-7	.0	.0	4.8	4.8	1.6	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
8-9	.0	.0	1.6	4.8	9.5	1.6	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
10-11	.0	.0	.0	.0	9.5	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	.0	.0	3.2	4.8	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
TOTAL	1	6	15	14	13	12	1	0	1	0	0	0	0	0	0	0	0	0	0	64	5
PCT	1.6	9.5	23.8	22.2	20.6	19.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	4.2	.0	94.2
SE	.0	.3	.0	.0	.0	.0	.0	.3	2.1	.0	1.0	.0	1.6	.0	95.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	93.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.6	.0	.0	.0	.0	.0	.6	1.2	.0	.6	.0	2.9	.0	95.1
TOT OBS:	162														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00Z03	.0	1.8	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	5.5	.0	90.9
06Z09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	96.4
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
18Z21	.0	.0	2.1	.0	.0	.0	.0	2.1	2.1	.0	2.1	.0	.0	.0	93.6
TOT PCT	.0	.6	.6	.0	.0	.0	.0	1.2	1.2	.0	.6	.0	2.4	.0	94.7
TOT OBS:	169														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.0	.0	.0	.0	.0		.3	2.0		.9	.0	.0	.0	.0	.7	.0	.0
NE	.4	1.7	.3	.0	.0	.0		2.4	7.2		1.9	2.2	.0	.0	6.2	2.6	.0	2.3
E	2.1	15.9	13.8	1.4	.0	.0		33.3	10.9		37.6	36.0	35.0	30.5	28.4	33.2	32.0	32.6
SE	2.0	26.2	22.0	1.6	.0	.0		51.8	10.8		49.1	49.4	60.0	58.5	55.1	46.4	61.7	50.6
S	.7	5.6	1.8	.2	.0	.0		8.3	8.7		6.3	7.9	5.0	11.0	9.6	9.9	3.1	8.7
SW	.3	1.1	.2	.0	.0	.0		1.5	6.1		2.3	.6	.0	.0	.6	2.0	.0	4.1
W	.2	.2	.0	.0	.0	.0		.4	4.5		.5	1.1	.0	.0	.0	.0	.0	.6
NW	.1	.3	.0	.0	.0	.0		.4	4.2		.5	1.7	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		.9	1.1	.0	.0	2.2	5.3	3.1	1.2
TOT OBS	44	286	214	18	0	0	562		10.3		107	89	13	68	89	76	32	86
TOT PCT	7.8	50.9	38.1	3.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	.3	.0	.0	.0	.0		.3	2.0			.5	.0	.0	.0	.3	.0		
NE	1.1	1.2	.1	.0	.0		2.4	7.2			2.0	.0	.0	.0	4.5	1.7		
E	7.0	20.2	6.0	.1	.0		33.3	10.9			36.9	31.3	30.6	32.4				
SE	10.6	33.1	8.0	.1	.0		51.8	10.8			49.2	58.7	50.0	53.6				
S	3.4	4.0	.9	.0	.0		8.3	8.7			7.0	9.9	9.7	7.2				
SW	1.1	.4	.0	.0	.0		1.5	6.1			1.5	.0	1.2	3.0				
W	.3	.1	.0	.0	.0		.4	4.5			.8	.0	.0	.4				
NW	.4	.0	.0	.0	.0		.4	4.2			1.0	.0	.0	.0				
VAR	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	.0				
CALM	1.8						1.8	.0			1.0	.0	.0	3.6	1.7			
TOT OBS	145	332	84	1	0	562		10.3			196	83	165	118				
TOT PCT	25.8	59.1	14.9	.2	.0			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AUGUST

AREA 0012 SOUTHEAST JAVA
8.93 114.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.0	7.1	49.0	39.8	3.1	.0	.0	10.3	100.0	196
0600	.0	1.2	53.0	41.0	4.8	.0	.0	11.0	100.0	83
1200	3.6	5.5	49.7	38.2	3.0	.0	.0	10.4	100.0	165
1800	1.7	8.5	54.2	33.1	2.5	.0	.0	9.6	100.0	118
TOT	10	34	286	214	18	0	0	10.3		562
PCT	1.8	6.0	50.9	38.1	3.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	20.5	6.0	4.5	2.4		2.6
SE	25.3	16.9	12.7	3.9		3.3
S	2.4	.0	2.1	2.1		4.8
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	.0		.0
TOT OBS	41	19	16	7	83	3.1
TOT PCT	49.4	22.9	19.3	8.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	1.2	2.1	1.2	.0	.0	.0	.0	.0	26.9	.0
SE	.0	.0	1.2	3.0	.0	1.2	.0	.0	.0	.0	53.3	.0
S	.0	.0	.0	.9	.0	1.2	.0	.0	.0	.0	4.5	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0
TOT OBS	0	2	5	1	2	0	0	0	0	0	73	83
TOT PCT	.0	.0	2.4	6.0	1.2	2.4	.0	.0	.0	.0	88.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.0	.0	.0	.0	.0	.0	.0
>2000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>1000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
>600	7.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5
>300	8.1	11.6	11.6	12.8	12.8	12.8	12.8	12.8
>150	8.1	11.6	11.6	12.8	12.8	12.8	12.8	12.8
>0	8.1	11.6	11.6	12.8	12.8	12.8	12.8	12.8
TOTAL	7	10	10	11	11	11	11	11

TOTAL NUMBER OF OBS: 86

PCT FREQ NH <5/8: 87.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
12.2	30.0	14.4	16.7	13.3	1.1	4.4	3.3	4.4	.0	90

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969

AUGUST

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NN PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	NO PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
	NN PCP	.0	.0	1.2	.3	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.2	.3	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
	NN PCP	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	34.6
	NO PCP	.0	.9	9.9	20.5	.8	1.2	.0	.0	.0	.0	.0	
	TOT %	.0	.9	10.3	20.7	.8	1.2	.0	.0	.0	.0	.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61.1
	NO PCP	.0	1.5	17.6	37.8	3.5	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.5	17.6	37.8	3.5	.0	.0	.0	.0	.0	.0	
TOT OBS		.0	4.3	29.2	59.4	4.6	1.2	.0	.0	.0	1.2	100.0	162
TOT PCT		.0	4.3	29.2	59.4	4.6	1.2	.0	.0	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
	4-10	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
	4-10	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.8	1.6	1.0	.2	.0	.0	.0	.0	.4	4.0	29.8
	4-10	.0	.4	5.0	8.6	.3	.8	.0	.0	.0	.0	15.1	
	11-21	.0	.0	1.9	3.3	.0	.0	.0	.0	.0	.0	5.2	
	22+	.0	.0	.2	1.4	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	.0	1.2	8.6	14.3	.3	.8	.0	.0	.0	.4	29.8	
10+	0-3	.0	.2	.8	2.2	1.4	.0	.0	.0	.0	2.4	7.1	71.4
	4-10	.0	.8	11.2	21.1	3.4	.4	.2	.0	.0	.0	38.9	
	11-21	.0	.4	5.7	18.3	1.1	.0	.0	.0	.0	.0	25.4	
	22+	.0	.0	1.2	.4	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	.2	1.2	18.8	42.0	6.3	.4	.2	.0	.0	2.4	71.4	
TOT OBS		.2	3.6	28.3	56.8	6.9	1.2	.2	.0	.0	2.8	100.0	252
TOT PCT		.2	3.6	28.3	56.8	6.9	1.2	.2	.0	.0	2.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1877-1969
(OVER-ALL) 1857-1969AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 599	600 999	1000 1999	2000 3499	3500 4499	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.2	12.5	.0	4.2	.0	.0	.0	.0	20.8	79.2	24
06009	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	6.7	93.3	15
12015	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	6.7	93.3	15
18021	.0	.0	2.9	.0	5.7	2.9	.0	.0	.0	.0	11.4	88.6	35
TOT	0	0	2	5	2	2	0	0	0	0	11	78	89
PCT	.0	.0	2.2	5.6	2.2	2.2	.0	.0	.0	.0	12.4	87.6	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	3.9	.0	36.4	59.7	77
06009	.0	.0	.0	.0	28.6	71.4	42
12015	.0	.0	.0	4.2	25.0	70.8	72
18021	.0	1.5	.0	.0	16.2	82.4	68
TOT	0	1	4	3	69	183	259
PCT	.0	.4	1.2	1.2	26.6	70.7	100.0

TABLE 12

CUMULATIVE P.T. FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	1500 4000	<1000 4000	1000+ 4000	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.3	17.4	4.3	78.3	23
06009	.0	.0	6.7	.0	93.3	15
12015	.0	.0	6.7	.0	93.3	15
18021	.0	3.0	3.0	9.1	87.9	33
TOT	0	2	7	4	75	86
PCT	.0	2.3	8.1	4.7	87.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.7	1.4	.0	.0	.0	3	2.1
80/84	.0	.0	.0	.0	2.9	13.7	9.3	1.4	34	24.3
75/79	.0	.0	.0	.0	1.4	25.0	30.0	15.7	101	72.1
70/74	.0	.0	.0	.0	.0	.0	.0	1.4	2	1.4
TOTAL	0	0	0	1	8	50	55	26	110	100.0
PCT	.0	.0	.0	.7	5.7	35.7	39.3	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	1.1	.0	.0	.0	.0	.0	.7
.0	1.1	9.3	12.2	.0	.7	.0	.0	.0	.0
.0	1.1	20.9	45.4	4.1	.7	.0	.0	.0	.3
.0	.0	.7	.7	.0	.0	.0	.0	.0	.0
.0	2.1	31.3	60.4	4.1	1.4	.0	.0	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	85	82	79	75	73	73	78.9	197
06009	89	88	83	80	76	74	74	79.5	83
12015	84	82	81	77	74	73	72	77.5	163
18021	82	81	79	77	74	73	73	76.9	119
TOT	89	84	82	78	75	73	72	78.2	562

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	9.8	39.2	33.3	7.6	81	51		
06009	.0	4.3	13.0	43.5	39.1	.0	76	23		
12015	.0	.0	3.2	19.4	54.8	22.6	84	31		
18021	.0	.0	.0	35.7	35.7	28.6	89	42		
TOT	0	1	9	51	58	28	82	147		

PERIOD: (PRIMARY) 1977-1969
(OVER-ALL) 1957-1969

AUGUST

AREA 0012 SOUTHEAST JAVA
8.95 114.4F

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	N FOG
9/10	.0	.0	.0	.0	.8	1	.0	.8
7/8	.0	.0	2.3	.8	.0	4	.0	3.1
5	.0	.0	3.1	.8	.0	5	.0	3.8
4	.0	.8	2.3	.0	.0	4	.0	3.1
3	.0	.0	3.1	.0	.0	4	.0	3.1
2	.0	3.8	3.8	.0	.0	10	.0	7.7
1	2.3	12.3	.0	.0	.0	19	.0	14.6
0	3.1	22.3	.0	.0	.0	33	.0	25.4
-1	2.3	16.2	.0	.0	.0	24	.0	18.5
-2	6.2	4.6	.0	.0	.0	14	.0	10.8
-3	1.5	2.3	.0	.0	.0	5	.0	3.8
-4	.8	2.3	.0	.0	.0	4	.0	3.1
-5	.0	1.5	.0	.0	.0	2	.0	1.5
-6	.8	.0	.0	.0	.0	1	.0	.8
TOTAL	22	86	19	2	1	130	.0	130
PCT	16.9	66.2	14.6	1.4	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	9.3	6.0	.0	.0	.0	16.2	.0	10.8	9.3	.0	.0	.0	20.1
3-4	.0	3.4	7.4	5.9	.0	.0	16.7	.0	6.4	16.2	2.0	.0	.0	24.3
5-6	.0	3.4	.0	.0	.0	.0	3.4	.0	3.4	5.9	.0	.0	.0	6.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.1	14.2	5.9	.0	.0	38.2	.0	19.6	31.4	2.0	.0	.0	52.9

PERIOD: (OVER-ALL) 1963-1969

AUGUST

AREA 0012 SOUTHEAST JAVA
8.85 114.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	1.5	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.0	.0	2.1	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	1.5	2.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.3	.0	.0	.0	.0	3.3	
1-2	.0	26.4	17.0	.0	.0	.0	43.4	
3-4	.0	9.4	22.6	7.5	.0	.0	39.6	
5-6	.0	5.7	5.7	1.9	.0	.0	13.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	45.3	45.3	9.4	.0	.0	100.0	53

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	14.5	14.5	9.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
6-7	.0	4.8	8.1	4.8	4.8	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
8-9	.0	.0	8.1	4.8	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDEX	1.6	1.6	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
TOTAL	1	13	13	13	1	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	62
PCT	1.6	21.0	37.1	21.0	8.1	9.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY
				PCPN		FRZN					WD	PCPN	HAZE	BLWG DUST
						PCPN					PCPN	PAST HR		BLWG SNOW
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	28.6	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.1	.0	4.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66.7	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.5	.0	2.1	.0
TOT OBS:	143													93.7

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY
				PCPN		FRZN					WD	PCPN	HAZE	BLWG DUST
						PCPN					PCPN	PAST HR		BLWG SNOW
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	5.1	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	3.1	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.4	.0	2.1	.0
TOT OBS:	145													93.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	.2	.0	.0	.0	.0			.2	5.0	.0	.0	.0	.0	.0	.0	.0	1.3
NE	.2	1.0	.0	.0	.0	.0			1.2	7.0	2.6	.0	.0	.0	1.2	.7	1.5	2.5
E	1.3	10.4	7.9	.4	.0	.0			19.9	10.4	23.9	20.1	26.3	16.7	18.3	20.9	7.4	20.0
SE	3.6	24.2	23.2	.6	.0	.0			51.6	10.5	49.7	49.0	53.9	58.3	57.0	50.0	58.8	45.0
S	1.8	12.4	9.8	.2	.0	.0			20.2	8.4	19.9	23.7	14.5	19.2	18.6	20.1	30.9	18.1
SW	.5	3.4	.2	.0	.0	.0			4.1	7.0	1.7	5.2	5.3	4.2	4.9	4.5	1.5	4.4
W	.0	.4	.0	.0	.0	.0			.4	8.0	.0	.5	.0	1.7	.0	.7	.0	.0
NW	.0	.3	.0	.0	.0	.0			.3	5.0	.0	.5	.0	.0	.0	.0	.0	1.3
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1								2.1	.0	2.3	1.0	.0	.0	.0	3.0	.0	7.5
TOT OBS	49	268	191	6	0	0		514		9.6	88	97	19	60	86	67	17	80
TOT PCT	9.5	52.1	37.2	1.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	.2	.0	.0	.0	.0			.2	5.0	.0	.0	.0
NE	.4	.7	.0	.0	.0			1.2	7.0	1.2	.0	1.0
E	5.1	11.6	3.3	.0	.0			19.9	10.4	21.9	19.0	19.4
SE	13.5	29.7	8.2	.2	.0			51.8	10.5	49.3	57.3	53.9
S	8.3	11.1	.8	.0	.0			20.2	8.4	21.9	18.0	19.3
SW	1.8	2.2	.0	.0	.0			4.1	7.0	3.5	4.4	4.7
W	.1	.3	.0	.0	.0			.4	8.0	.3	1.3	.3
NW	.3	.0	.0	.0	.0			.3	5.0	.3	.0	.0
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	1.6	.0	1.3
TOT OBS	144	286	83	1	0	514		9.6		185	79	153
TOT PCT	31.9	55.6	12.3	.2	.0	100.0			100.0	100.0	100.0	100.0

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3		4-10		WIND SPEED (KNOTS)		48+	MEAN	PCT FREQ	TOTAL OBS
		11-21	22-33	34-47							
00603	1.6	9.2	48.1	40.0	1.1	.0	.0	9.8	100.0	189	
06609	.0	2.5	57.0	40.5	.0	.0	.0	10.3	100.0	7	
12615	1.3	8.5	56.2	32.0	2.0	.0	.0	9.3	100.0	15	
18621	6.2	6.2	6.7	31.1	1.0	.0	.0	9.0	100.0	87	
TOT	11	38	268	191	6	.0	.0	9.6			
PCT	2.1	7.4	42.1	37.2	1.2	.0	.0	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

PERCENT OF TOTAL						MEAN CLUTED COVER	PERCENT OF TOTAL										NH ANY	≤5/8 HGT	TOTAL DBS
WIND DIR	0-2	3-4	5-7	8 & OVER	TOTAL PERS		000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
E	12.3	4.4	7.1	.0	.0	2.8	.0	.0	.0	2.4	.0	1.6	.0	.0	.0	15.8			
SE	28.6	26.6	8.3	.0	.0	2.7	.0	.0	.0	3.6	1.6	.0	.0	.0	.0	58.3			
S	5.2	2.4	3.6	.0	.0	3.0	.0	.0	.0	2.0	.0	1.6	.0	.0	.0	7.5			
SW	.0	1.6	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6			
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT DBS	29	22	12	.0	.0	2.8	.0	.0	.0	5	1	2	0	0	0	55			
TOT PCT	46.0	34.0	9.0	.0	100.0	.0	.0	.0	7.9	1.6	3.2	.0	.0	.0	.0	87.3			

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 24/8) AND VSBY (44)

CEILING (FEET)	VSBY (NM)							
	> OR ≥10	= OR ≥5	= OR ≥2	= OR ≥1	= OR ≥1/2	= OR ≥1/4	= OR ≥50 YD	= OR ≥0
= DR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= DR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= DR >3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= DR >2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= DR >1000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= DR >600	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= NM >300	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= NM >150	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= DR >0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
TOTAL	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBS: 66 PCT FREQ NH <5/81: 87.5

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

0	1	2	3	4	5	6	7	8	9	TOTAL
								OBSCD		OB5
15.9	14.9	32.4	14.1	9.9	8.5	2.8	.0	.0	.0	71

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

SEPTEMBER

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.4	.7	1.4	.4	.0	.0	.7	.0	.0	.0	3.5
	TOT %	.0	.4	.7	1.4	.4	.0	.0	.7	.0	.0	.0	3.5
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.4	2.5	13.7	7.0	3.2	.4	.4	.0	.0	.0	27.5
	TOT %	.0	.4	2.5	13.7	7.0	3.2	.4	.4	.0	.0	.0	27.5
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.5	12.9	41.5	12.0	.7	.0	.0	.0	.0	.0	67.6
	TOT %	.0	.5	12.9	41.5	12.0	.7	.0	.0	.0	.0	.0	67.6
TOT OBS													142
TOT PCT		.0	1.2	16.7	57.4	19.4	3.9	.4	1.1	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.3	1.0	.7	.2	.0	.0	.5	.0	.0	.0	2.7
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	1.2	.9	.2	.0	.0	.5	.0	.0	.0	3.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5
5<10	0-3	.0	.0	.2	2.0	1.4	.0	.0	.0	.0	.0	.0	3.6
	4-10	.0	.7	1.1	4.5	2.5	2.0	.2	.2	.0	.0	.0	11.3
	11-21	.0	.0	.5	3.8	.7	.0	.0	.0	.0	.0	.0	5.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.7	1.8	10.4	4.3	2.6	.2	.2	.0	.0	.0	19.9
10+	0-3	.0	.5	.5	1.4	.5	.0	.0	.0	.0	3.2	.0	5.9
	4-10	.5	1.2	9.3	24.5	10.1	1.5	.0	.0	.0	.0	.0	47.1
	11-21	.0	.0	4.9	19.3	2.6	.3	.0	.0	.0	.0	.0	23.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	1.7	14.6	41.2	13.1	1.8	.0	.0	.0	3.2	.0	76.0
TOT OBS													221
TOT PCT		.5	2.7	18.1	52.9	17.9	3.8	.2	.7	.0	3.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0012 SOUTHEAST JAVA
8.9S 114.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <4/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	11.1	5.6	5.6	.0	.0	.0	22.2	77.8	18
06009	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	11.1	88.9	18
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	18
18021	.0	.0	.0	.0	5.9	.0	5.9	.0	.0	.0	11.8	88.2	17
TOT	0	0	0	0	5	1	2	0	0	0	8	63	71
PCT	.0	.0	.0	.0	7.0	1.4	2.8	.0	.0	.0	11.3	88.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.6	3.2	.0	20.6	74.6	63
06009	.0	.0	.0	.0	25.0	75.0	40
12015	.0	.0	4.5	1.5	21.2	72.7	66
18021	.0	.0	3.2	.0	14.8	81.5	54
TOT	0	1	7	1	45	169	223
PCT	.0	.4	3.1	.4	20.2	75.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	22.2	77.8	18
06009	.0	.0	.0	12.5	87.5	16
12015	.0	.0	.0	.0	100.0	14
18021	.0	.0	.0	14.3	85.7	14
TOT	0	0	0	8	56	64
PCT	.0	.0	.0	12.5	87.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.0	.0	1	.9
80/84	.0	.0	.0	.0	6.8	17.9	6.8	.0	37	31.6
75/79	.0	.0	.0	1.7	4.3	23.1	34.2	3.4	78	66.7
70/74	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	2	14	48	48	5	117	100.0
PCT	.0	.0	.0	1.7	12.0	41.0	41.0	4.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
80/84	.0	.4	6.8	18.6	3.6	1.3	.4	.4	.0	.0
75/79	.0	.4	7.9	41.0	13.5	3.0	.0	.9	.0	.0
70/74	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
TOTAL	.0	.9	14.7	60.5	17.9	4.3	.4	1.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	85	84	80	77	75	75	79.8	179
06009	86	85	84	80	77	75	75	80.6	79
12015	85	84	82	78	75	74	74	78.4	153
18021	86	83	80	77	74	73	73	77.4	99
TOT	87	85	83	79	75	74	73	79.1	510

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	3.0	60.6	30.3	3.0	78	33		
06009	.0	3.8	30.8	42.3	23.1	.0	74	26		
12015	.0	.0	12.1	33.3	51.5	3.0	80	23		
18021	.0	.0	3.7	22.2	59.3	14.8	83	27		
TOT	0	2	14	48	49	6	79	119		

SEPTEMBER

PERIOD: (PRIMARY) 1878-1969
(OVER-ALL) 1859-1969

AREA 0017 SOUTHEAST JAVA
8.95 114.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
6	.0	.0	2.2	.0	2	.0	2.2
4	.0	.0	2.2	.0	2	.0	2.2
3	.0	.0	5.5	1.1	6	.0	6.6
2	.0	3.3	3.3	.0	6	.0	6.6
1	2.2	8.8	2.2	.0	12	1.1	12.1
0	1.1	27.5	2.2	.0	28	3.3	27.5
-1	1.1	19.6	2.2	.0	21	.0	23.1
-2	1.1	7.7	1.1	.0	9	.0	9.9
-3	.0	1.1	.0	.0	1	.0	1.1
-4	.0	1.1	.0	.0	1	.0	1.1
-5	2.2	1.1	.0	.0	3	.0	3.3
TOTAL	7	64	19	1	91	4	87
PCT	7.7	70.3	20.9	1.1	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.3	.0	.0	.0	.0	2.3	.0	3.8	.0	.0	.0	.0	3.8
1-2	.0	6.1	.0	.0	.0	.0	6.1	.0	22.0	12.1	.0	.0	.0	34.1
3-4	.0	.0	4.5	.0	.0	.0	4.5	.0	.8	7.6	.0	.0	.0	8.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	.0	.0	.0	7.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	4.5	.0	.0	.0	12.9	.0	26.5	33.3	.0	.0	.0	59.8

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0012 SOUTHEAST JAVA
8.95 114.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.3	.0	.0	.0	.0	5.3	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	8.3	3.0	.0	.0	.0	11.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	3.0	4.5	.0	.0	.0	7.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.7	7.6	.0	.0	.0	24.2	.0	3.0	.0	.0	.0	.0	3.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	6.1	.0	.0	.0	.0	6.1	
1-2	.0	36.4	12.1	.0	.0	.0	48.5	
3-4	.0	9.1	15.2	.0	.0	.0	24.2	
5-6	.0	3.0	12.1	.0	.0	.0	15.2	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	3.0	.0	.0	.0	3.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	54.5	45.5	.0	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.5	13.2	13.2	5.7	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3
6-7	.0	1.9	7.5	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
8-9	.0	.0	7.5	9.4	9.4	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
10-11	.0	.0	.0	1.9	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
TOTAL	4	9	15	9	14	1	0	0	1	0	0	0	0	0	0	0	0	0	0	53	4
PCT	7.5	17.0	28.3	17.0	26.4	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969AREA 0012 SOUTHEAST JAVA
8.95 114.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	2.0	.8	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0
S	1.5	2.9	.0	.0	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	1.3	.0	.0	.0	.0	.0	2.6	.0	1.3	.0	.0	3.2	.0	.0	92.9
TOT OBS:	156															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
00003	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	90.0
06009	.0	3.3	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	96.7
12015	2.1	2.1	.0	.0	.0	.0	.0	4.3	.0	2.1	.0	.0	.0	.0	93.6
18021	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	5.3	2.6	.0	2.6	.0	86.8
TOT PCT TOT OBS:	1.2 165	1.8	.0	.0	.0	.0	.0	3.0	.0	1.8	.6	.0	3.0	.0	91.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18
N	.0	.3	.0	.0	.0	.0			.3	5.0	.0	.0	.0	.8	.0	.0	.0
NE	.0	.9	.0	.0	.0	.0			.9	5.6	4.9	.0	.0	.8	.0	.0	.0
E	1.3	13.3	4.0	.1	.0	.0			18.7	8.4	26.1	25.2	13.2	16.8	12.9	9.6	8.3
SE	2.4	28.4	12.3	.6	.0	.0			43.7	9.4	38.5	40.5	47.4	46.7	49.7	52.7	44.0
S	2.9	16.8	4.7	.0	.2	.0			24.6	8.0	20.3	23.7	31.6	26.6	28.9	26.0	33.3
SW	1.4	5.3	1.1	.0	.0	.0			7.7	6.9	6.0	4.9	7.9	8.2	6.5	6.2	4.8
W	.4	1.4	.0	.0	.0	.0			1.7	5.4	2.5	2.2	.0	.0	.8	2.1	4.8
NW	.2	.4	.0	.0	.0	.0			.5	4.0	.5	.0	.0	.0	1.1	.7	.0
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8								1.8	.0	1.1	3.5	.0	.0	.0	2.7	4.8
TOT DBS	57	368	122	4	1	0	552		8.4		91	113	19	61	89	73	21
TOT PCT	10.3	66.7	22.1	.7	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.3	.0	.0	.0	.0		.3	5.0	.0	.6	.0	.9
NE	.8	.1	.0	.0	.0		.9	5.6	2.2	.6	.0	.0
E	6.7	11.5	.5	.0	.0		18.7	8.4	25.6	15.9	11.4	18.6
SE	12.1	28.3	3.1	.2	.0		43.7	9.4	39.6	46.9	51.1	38.0
S	10.1	13.4	.9	.2	.0		24.6	8.0	22.2	27.8	27.6	22.2
SW	4.2	3.4	.2	.0	.0		7.7	6.9	5.4	8.1	6.3	14.2
W	1.1	.6	.0	.0	.0		1.7	5.4	2.3	.0	1.4	2.4
NW	.5	.0	.0	.0	.0		.5	4.0	.2	.0	.9	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.5	.0	1.2	2.8
TOT DBS	208	316	26	2	0	552		8.4	204	80	162	106
TOT PCT	37.7	57.2	4.7	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

CTYONER

AREA 0012 SOUTHEAST JAVA
8.95 114.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.5	9.8	64.7	22.5	.0	.5	.0	8.1	100.0	204	
06009	.0	3.8	71.3	25.0	.0	.0	.0	8.8	100.0	80	
12015	1.2	9.9	67.9	19.8	1.2	.0	.0	8.5	100.0	162	
18021	2.8	7.5	65.1	22.6	1.9	.0	.0	8.4	100.0	106	
TOT	10	47	308	122	4	1	0	8.4		552	
PCT	1.8	8.1	66.7	22.1	.7	.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	1.3	.0	.0		3.0
E	3.9	2.6	4.2	1.3		3.9
SE	14.0	8.8	13.3	2.9		7.7
S	15.9	15.3	3.2	1.0		2.6
SW	1.1	1.9	1.6	.0		3.1
W	2.3	.0	2.3	.0		3.1
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	2.6	.0	.0	.0		1.0
TOT OBS	51	23	19	4	77	3.7
TOT PCT	40.3	29.9	24.7	5.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0
SE	.0	.0	.0	1.6	3.9	1.3	.0	.0	1.3	.0	.0	30.8
S	.0	.0	.0	1.0	1.3	.0	.0	.0	.0	.0	.0	39.1
SW	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	4.9
W	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	2.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
TOT OBS	0	0	0	2	6	1	0	0	1	0	0	67
TOT PCT	.0	.0	.0	2.6	7.8	1.3	.0	.0	1.3	.0	87.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)				OR				OR >0
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >2000	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OR >1000	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
OR >600	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
OR >300	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
OR >150	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
OR > 0	10.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
TOTAL	8	10	10	10	10	10	10	10	

TOTAL NUMBER OF OBS: 79

PCT FREQ NH <5/8: 87.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.8	24.7	24.7	14.8	7.4	3.7	3.7	3.7	2.5	81

OCTOBER

 PERIOD: (PRIMARY) 1872-1969
 (OVER-ALL) 1856-1969

 AREA 0012 SOUTHEAST JAVA
 8.9S 114.9E

TABLE 8

 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.0	.6	.6	.6	.0	.0	.0	.0	.0	2.6
	TOT %	.0	.6	.0	.6	.6	.6	.0	.0	.0	.0	.0	2.6
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
5<10	PCP	.0	.0	.0	1.1	.8	.0	.0	.0	.0	.0	.0	1.9
	NO PCP	.0	.0	3.4	12.2	10.6	7.2	.0	.0	.0	.0	.6	34.0
	TOT %	.0	.0	3.4	13.3	11.4	7.2	.0	.0	.0	.0	.6	35.9
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	NO PCP	.0	.6	6.7	26.0	20.2	2.4	2.2	.6	.0	1.3	60.3	
	TOT %	.0	.6	6.7	26.0	20.2	2.4	2.2	.6	.0	1.3	60.9	
TOT OBS													196
TOT PCT		.0	1.3	10.7	39.9	32.9	10.4	2.2	.6	.0	1.9	100.0	

TABLE 9

 PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
 WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.4	.4	.4	.0	.0	.0	.0	.0	1.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.0	.4	.4	.4	.0	.0	.0	.0	.0	1.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4
5<10	0-3	.0	.0	.0	.2	2.9	.9	.0	.0	.0	.8	.4	4.7
	4-10	.0	.0	1.6	4.8	3.6	3.7	.0	.0	.0	.0	.0	13.8
	11-21	.0	.0	.5	3.0	1.1	.2	.0	.0	.0	.0	.0	4.7
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.0	.0	2.1	8.4	7.6	4.8	.0	.0	.0	.8	.8	23.6
10+	0-3	.0	.0	.8	3.0	2.0	1.4	.4	.4	.0	1.6	.4	9.4
	4-10	.4	.8	8.9	23.7	16.2	2.6	1.2	.2	.0	.0	.0	53.9
	11-21	.0	.0	1.0	6.6	2.3	1.2	.0	.0	.0	.0	.0	11.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.8	10.6	33.3	20.5	5.1	1.6	.6	.0	1.6	.4	74.4
TOT OBS													254
TOT PCT		.4	1.2	13.1	42.0	28.4	10.3	1.6	.6	.0	2.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969AREA 0012 SOUTHEAST JAVA
8.9S 114.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	16.7	83.3	18
06009	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	5.3	94.7	19
12015	.0	.0	.0	5.0	5.0	.0	.0	.0	5.0	.0	15.0	85.0	20
18021	.0	.0	.0	4.3	4.3	4.3	.0	.0	.0	.0	13.0	87.0	23
TOT	0	0	0	2	6	1	0	0	1	0	10	70	80
PCT	.0	.0	.0	2.5	7.5	1.3	.0	.0	1.3	.0	12.5	87.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	3.1	.0	28.2	67.9	78
06009	.0	.0	.0	.0	14.6	85.4	48
12015	.0	.0	.0	1.2	29.6	69.1	81
18021	.0	1.8	1.8	.0	23.2	73.2	56
TOT	0	1	4	1	66	191	263
PCT	.0	.4	1.5	.4	25.1	72.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	16.7	83.3	18
06009	.0	.0	.0	5.3	94.7	19
12015	.0	.0	5.0	10.0	85.0	20
18021	.0	.0	4.5	9.1	86.4	22
TOT	0	0	2	8	69	79
PCT	.0	.0	2.5	10.1	87.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
85/89	.0	.0	.0	.8	2.9	3.3	.0	.0	12	9.8
80/84	.0	.0	.0	.0	.8	23.8	31.1	4.9	74	60.7
75/79	.0	.0	.0	.0	.0	5.7	18.0	4.9	35	78.7
TOTAL	0	0	0	1	5	40	64	12	122	100.0
PCT	.0	.0	.0	.8	4.1	32.8	52.5	9.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
.0	.0	1.0	3.5	4.5	.8	.0	.0	.0	.0
.0	.8	5.1	29.3	18.0	6.6	.0	.0	.0	.8
.0	.8	3.5	11.7	7.8	1.2	2.9	.0	.0	.8
.0	1.6	10.5	44.5	30.3	8.6	2.9	.0	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	87	81	78	75	75	81.7	205
06009	91	90	87	82	79	77	77	82.6	80
12015	90	89	84	80	77	76	76	80.6	164
18021	87	84	83	80	76	75	75	79.7	109
TOT	91	89	86	81	77	75	75	81.1	558

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.6	39.5	55.3	2.6	80	38		
06009	.0	4.2	12.5	41.7	41.7	.0	77	24		
12015	.0	.0	.0	29.7	59.5	10.8	83	37		
18021	.0	.0	3.1	25.0	50.0	21.9	84	32		
TOT	0	1	5	44	69	12	81	131		

OCTOBER

PERIOD: (PRIMARY) 1872-1969
(OVER-ALL) 1856-1969

AREA 0012 SOUTHEAST JAVA
8.95 114.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
9/10	.0	.0	.0	.8	.0	1	.0	.8
7/8	.0	.0	.0	.0	2.4	3	.0	2.4
6	.0	.0	.0	.0	1.0	2	.0	1.0
5	.0	.0	.8	2.4	.8	5	.0	4.0
4	.0	.8	.8	1.6	.0	4	.0	3.2
3	.0	.0	2.4	.8	.0	4	.0	3.2
2	.0	.8	8.0	.8	.0	12	.0	9.6
1	.0	1.6	6.4	.8	.0	11	.0	8.8
0	.0	10.4	12.8	.8	.0	30	.0	24.0
-1	.0	9.6	4.8	.0	.0	18	.0	14.4
-2	.0	7.2	8.8	.0	.0	20	.0	16.0
-3	.0	1.6	2.4	.0	.0	5	.0	4.0
-4	.8	3.2	.8	.0	.0	6	.0	4.8
-5	.8	.8	.0	.0	.0	2	.0	1.6
-6	.0	1.6	.0	.0	.0	2	.0	1.6
TOTAL	2	47	60	10	6	125	0	125
PCT	1.6	37.6	48.0	8.0	4.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	2.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.6	.0	.0	.0	.0	1.6	2.2	12.0	.0	.0	.0	.0	14.1
1-2	.0	2.2	.0	.0	.0	.0	2.2	2.2	9.8	.0	.0	.0	.0	12.0
3-4	.0	2.2	3.8	.0	.0	.0	6.0	.0	2.7	5.4	.0	.0	.0	8.2
5-6	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	4.9	.0	.0	.0	4.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	6.0	.0	.0	.0	12.0	4.3	24.5	10.9	.0	.0	.0	39.7

PERIOD: (OVER-ALL) 1963-1969

OCTOBER

AREA 0012 SOUTHEAST JAVA
8.93 114.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	18.3	.0	.0	.0	.0	18.3	2.2	.3	2.2	.0	.0	.0	4.9	.0
3-4	.0	8.0	3.4	.0	.0	.0	9.8	.0	2.2	.0	.0	.0	.0	2.2	.0
5-6	.0	4.3	1.6	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	28.3	7.1	.0	.0	.0	35.3	2.2	2.7	2.2	.0	.0	.0	7.1	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	1.6	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	17.4	.0	.0	.0	.0	21.7	
1-2	4.3	30.4	2.2	.0	.0	.0	37.0	
3-4	.0	13.0	13.0	.0	.0	.0	26.1	
5-6	.0	4.3	8.7	.0	.0	.0	13.0	
7	.0	.0	2.2	.0	.0	.0	2.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-49	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.7	65.2	26.1	.0	.0	.0	100.0	46

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	12.5	7.8	4.7	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	3
6-7	.0	4.7	18.8	6.3	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
8-9	.0	.0	1.6	4.7	.0	1.6	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
10-11	.0	.0	1.6	7.8	4.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
12-13	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.6	.0	1.6	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	
TOTAL	3	11	20	16	6	2	1	9	0	0	0	0	0	0	0	0	0	0	0	64	4
PCT	4.7	17.2	31.3	25.0	9.4	3.1	1.6	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1969-1970
(OVER-ALL) 1959-1970AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0	90.5
E	8.2	.0	.0	.0	.0	.0	.0	8.2	.0	12.2	.0	.0	.0	.0	79.6
SE	.0	.7	.0	.0	.0	.0	.0	.7	2.7	2.7	.0	.0	4.1	.0	89.8
S	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	2.1	.0	.0	5.3	.0	91.0
SW	4.7	.0	.0	.0	.0	.0	.0	4.7	2.3	.0	2.3	.0	4.7	.0	86.0
W	.0	11.0	.0	.0	.0	.0	.0	11.0	13.7	.0	2.7	.0	2.7	.0	85.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	88.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.4	2.0	.0	.0	.0	.0	.0	3.4	2.7	2.7	.7	.0	4.1	.0	86.5
TOT OBS:	148														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	.0	2.4	.0	.0	.0	.0	.0	2.4	4.8	.0	.0	.0	9.5	.0	83.3
06009	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	3.6	.0	92.9
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	2.1	.0	4.2	.0	89.6
18021	5.6	2.8	.0	.0	.0	.0	.0	8.3	5.6	5.6	.0	.0	.0	.0	80.6
TOT PCT	1.3	1.9	.0	.0	.0	.0	.0	3.2	2.6	2.6	.6	.0	4.5	.0	86.4
TOT OBS:	154														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	.4	.1	.0	.0	.0	.0	1.4	3.7	2.5	2.2	.0	1.7	.9	.0	.0	1.1	
NE	1.5	1.7	.1	.0	.0	.0	.0	3.4	8.4	4.1	7.0	.0	2.3	2.3	1.8	4.8	1.1	
E	1.0	6.4	1.8	.2	.0	.0	.0	9.4	8.0	11.6	12.5	.0	7.5	7.3	7.1	7.1	10.8	
SE	2.1	19.2	7.0	.3	.0	.0	.0	28.6	8.6	25.6	28.3	33.3	29.9	27.5	33.9	36.9	24.4	
S	3.6	17.9	4.9	.2	.0	.0	.0	26.6	7.7	28.1	19.1	33.3	29.9	32.8	29.2	22.6	23.3	
SW	1.6	8.7	2.5	.0	.0	.0	.0	12.8	7.8	5.0	12.1	12.5	12.6	16.3	13.1	13.1	16.5	
W	1.0	5.2	1.9	.2	.0	.0	.0	8.3	8.8	9.4	6.3	20.8	9.2	8.3	7.1	15.5	7.4	
NW	1.2	2.3	.5	.1	.0	.0	.0	4.1	6.2	7.5	5.9	.0	.0	1.8	3.0	.0	7.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.5							9.5	.0	6.3	6.6	.0	6.9	2.8	4.8	.0	8.0	
TOT OBS	114	382	115	6	0	0	0	617		80	136	12	87	105	84	21	88	
TOT PCT	18.5	61.9	18.6	1.0	.0	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.2	.2	.0	.0	.0	.0		1.4	3.7	2.3	1.5	.5	.9
NE	2.8	.6	.0	.0	.0	.0		3.4	4.4	5.9	2.0	2.1	1.8
E	4.4	4.5	.5	.0	.0	.0		9.4	8.0	12.2	6.6	7.3	10.1
SE	11.3	15.3	2.0	.0	.0	.0		28.6	8.6	27.3	30.3	30.3	26.8
S	12.1	13.1	1.4	.0	.0	.0		26.6	7.7	22.5	30.3	31.2	23.2
SW	5.6	6.6	.6	.0	.0	.0		12.8	7.8	9.5	12.6	14.9	13.8
W	2.8	4.9	.6	.0	.0	.0		8.3	8.8	7.4	10.6	7.8	8.9
NW	2.9	.9	.2	.0	.0	.0		4.1	6.2	6.5	.0	2.3	6.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0	6.3	6.1	3.6	6.4
TOT OBS	300	284	33	0	0	617		7.4		216	99	193	109
TOT PCT	48.6	46.0	5.3	.0	.0			100.0		100.0	100.0	100.0	100.0

AREA 0012 SOUTHEAST JAVA
8.9S 114.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			46+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	6.5	18.1	55.6	18.5	1.4	.0	.0	7.0	100.0	216
0600	6.1	6.1	65.7	22.2	.0	.0	.0	8.1	100.0	89
1215	3.6	10.9	65.8	19.7	.5	.0	.0	7.9	100.0	199
1800	6.4	12.8	66.2	17.8	.0	.0	.0	7.1	100.0	109
TOT	5.4	8.0	382	115	1.6	.0	0	7.4		617
PCT	34	130	61.9	18.6	1.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

		BY WIND DIRECTION				MEAN
WIND DIR	0-2	3-6	5-7	8 & NBSCD	TOTAL NBS	CLOUD COVER
N	.0	.0	1.5	.0		5.0
NE	.0	.0	1.5	1.9		7.1
E	.0	1.5	.8	1.1		5.5
SE	11.4	8.5	6.8	3.0		3.7
S	12.9	7.2	10.2	1.5		9.5
SW	8.7	3.0	3.4	.0		3.0
W	3.4	.5	3.0	3.0		4.6
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT NBS	24	17	18	7	66	3.8
TOT PCT	36.4	25.8	27.3	10.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	499	999	1999	3499	4999	6499	7999		ANY HGT	DBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	.4	.0	.0	.0	1.2	.0	.0	1.5	
.0	.0	.0	1.1	.0	.0	.0	.8	.0	.0	1.5	
.0	.0	.3	.0	1.5	1.5	1.5	.8	.0	.0	25.4	
.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	28.8	
.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	13.6	
.0	.0	.0	1.5	3.0	.0	.0	.0	.0	.0	9.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.3	.2	.2	.0	.0	.0	.34	
.0	.0	.0	4.5	4.5	3.0	3.0	3.0	.0	.0	81.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	≥ DR ≥10	≥ DR ≥5	≥ DR ≥2	≥ DR ≥1	≥ DR ≥1/2	≥ DR ≥1/4	≥ DR ≥50YD	≥ DR ≥0
≥ DR ≥6500	1.0	0	0	0	0	0	0	0
≥ DR ≥3500	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
≥ DR ≥2500	4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ DR ≥2000	7.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
≥ DR ≥1000	10.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
≥ DR ≥600	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
≥ DR ≥300	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
≥ DR ≥150	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
≥ DR ≥ 0	14.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
TOTAL	10	12	12	12	12	12	12	12

TOTAL NUMBER OF OBS: 67

PCT FREQ NH 45/01 02.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	GRSCD	TOTAL NBS
5.6	20.8	29.2	12.5	13.9	6.9	4.2	.0	6.9	.0	72

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1859-1970

NOVEMBER

AREA 0012 SOUTHEAST JAVA
8.95 114.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	1.0	1.0	.7	.3	.3	.0	.0	.0	3.4
	TOT %	.0	.0	.0	1.0	1.0	.7	.3	.3	.0	.0	.0	3.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.7	.0	.0	.7	.7	.0	.0	.0	.0	2.0
	NO PCP	.0	3.0	5.1	8.4	13.2	4.7	2.0	2.7	.0	.7	.0	39.9
	TOT %	.0	3.0	5.7	8.4	13.2	5.4	2.7	2.7	.0	.7	.0	41.9
10+	PCP	.0	.0	.0	.2	.5	.0	.7	.0	.0	.0	.0	1.4
	NO PCP	1.0	.5	2.5	15.2	17.1	8.4	8.6	.0	.0	.0	.0	53.4
	TOT %	1.0	.5	2.5	15.4	17.6	8.4	9.3	.0	.0	.0	.0	54.7
TOT OBS													
TOT PCT													
		1.0	3.9	8.3	24.8	31.8	14.5	12.3	3.0	.0	.7	100.0	148

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.4	.0	.0	.0	.4	.0	.0	.0	.8	.0	1.6
	4-10	.0	.0	.0	.6	.6	.0	.2	.2	.0	.0	.0	1.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.6	.6	.4	.2	.2	.0	.8	.0	3.2
2<5	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4
	4-10	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.8
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.8	.4	.2	.2	.0	.0	.0	.0	1.6
5<10	0-3	.0	1.4	.2	.0	1.2	.4	.2	.6	.0	.4	.0	4.4
	4-10	.0	.8	3.4	5.8	5.6	3.0	1.2	.2	.0	.0	.0	19.9
	11-21	.0	.0	.6	1.4	1.2	.0	.4	.8	.0	.0	.0	4.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	2.2	4.2	7.2	8.0	3.4	1.8	1.6	.0	.4	.0	28.7
10+	0-3	.8	.0	.4	2.2	2.2	1.2	.8	.4	.0	2.4	.0	10.4
	4-10	.8	.9	4.9	15.8	13.5	5.3	6.0	.8	.0	.0	.0	48.2
	11-21	.0	.0	.2	3.6	1.4	1.3	1.5	.0	.0	.0	.0	8.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.6	.9	5.5	21.6	17.1	8.0	8.3	1.2	.0	2.4	.0	66.3
TOT OBS													
TOT PCT													
		1.6	3.5	9.7	30.2	26.1	12.0	10.5	3.0	.0	3.6	100.0	251

NOVEMBER

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1855-1970

AREA 0012 SOUTHEAST JAVA
8.95 114.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	11.8	5.9	.0	5.9	.0	.0	.0	23.5	76.5	17
06009	.0	.0	.0	7.1	7.1	7.1	.0	.0	.0	.0	21.4	78.6	14
12015	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	5.6	94.4	18
18021	.0	.0	.0	.0	4.5	.0	4.5	9.1	.0	.0	18.2	81.8	22
TOT	0	0	0	3	3	2	2	2	0	0	12	59	71
PCT	.0	.0	.0	4.2	4.2	2.8	2.8	2.8	.0	.0	16.9	83.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	5.9	2.9	30.9	60.3	68
06009	.0	.0	4.4	.0	22.2	73.3	45
12015	.0	.0	3.4	.0	28.1	68.5	89
18021	.0	.0	.0	3.6	34.5	61.8	55
TOT	0	0	9	4	75	169	257
PCT	.0	.0	3.5	1.6	29.2	65.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	13.3	13.3	73.3	15
06009	.0	.0	7.7	15.4	76.9	13
12015	.0	.0	.0	5.6	94.4	18
18021	.0	.0	.0	19.0	81.0	21
TOT	0	0	3	9	55	67
PCT	.0	.0	4.5	13.4	82.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
85/89	.0	.0	.0	.0	.8	6.7	4.2	.0	14	11.8
80/84	.0	.0	.0	.0	2.5	34.5	42.0	5.9	101	84.9
75/79	.0	.0	.0	.9	.0	.8	.8	.8	3	2.5
TOT	0	0	0	0	9	50	56	8	119	100.0
PCT	.0	.0	.0	.0	4.2	42.0	47.1	6.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
.8	.0	1.3	3.8	2.5	1.7	.4	.4	.0	.8
.0	.2	5.3	22.1	27.7	13.0	14.1	2.5	.0	.8
.0	.0	.8	.0	.8	.0	.8	.0	.0	.0
.8	.2	7.4	26.7	31.1	14.7	15.3	2.9	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	91	88	84	80	77	76	83.8	208
06009	91	90	87	83	80	72	72	83.8	98
12015	87	85	84	82	79	77	77	81.9	185
18021	85	84	83	81	77	76	76	80.9	104
TOT	92	90	87	83	79	77	72	82.7	595

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	43.7	45.7	8.6	80	35	35
06009	.0	.0	16.7	50.0	33.3	.0	77	24		24
12015	.0	.0	.0	41.7	55.6	2.8	80	36		36
18021	.0	.0	3.3	36.7	46.7	13.3	82	30		30
TOT	0	0	5	54	58	8	80	125		125

PERIOD: (PRIMARY) 1869-1970
(OVER-ALL) 1855-1970

NOVEMBER

AREA 0012 SOUTHEAST JAVA
8.05 114.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.9	1	.0	.9
6	.0	.0	.0	.0	.9	.0	1	.0	.9
4	.0	.0	.0	.9	1.9	.0	3	.0	2.8
3	.0	.0	.0	5.7	2.8	.0	9	.0	8.5
2	.0	.0	.9	5.7	.9	.0	8	.0	7.5
1	.0	.0	.0	7.5	.0	.0	8	.0	7.5
0	.0	.0	3.8	30.2	.9	.0	37	.9	34.0
-1	.0	.0	2.8	10.4	.0	.0	14	.0	13.2
-2	.0	.0	1.9	12.3	.0	.0	15	.0	14.2
-3	.0	.0	.0	1.9	.0	.0	2	.0	1.9
-4	.0	.0	.9	1.9	.0	.0	3	.0	2.8
-5	.0	.0	.9	1.9	.0	.0	3	.0	2.8
-6	.0	.9	.0	.0	.0	.0	1	.0	.9
-7/-8	.9	.0	.0	.0	.0	.0	1	.0	.9
TOTAL	1	1	12	83	8	1	106	1	105
PCT	.9	.9	11.3	78.3	7.5	.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	2.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.2	5.6	.0	.0	.0	.0	18.8
3-4	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	.0	11.1	.0	.0	.0	.0	11.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	16.0	16.7	.0	.0	.0	.0	32.6

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0012 SOUTHEAST JAVA
8.05 114.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	.0	.0	.0	.0	.0	2.8	2.8	2.8	.0	.0	.0	.0	5.6
1-2	.0	20.1	.0	.0	.0	.0	20.1	.0	5.6	2.8	.0	.0	.0	8.3
3-4	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	25.7	.0	.0	.0	.0	28.5	2.8	8.3	2.8	.0	.0	.0	13.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.1	2.8	.0	.0	.0	13.9	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.6	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.1	8.3	.0	.0	.0	19.4	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.6	5.6	.0	.0	.0	.0	11.1	61.1
1-2	.0	50.0	11.1	.0	.0	.0	61.1	27.8
3-4	.0	11.1	10.7	.0	.0	.0	21.8	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.6	66.7	27.8	.0	.0	.0	100.0	36

PERIOD: (OVER-ALL) 1953-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	9.3	14.8	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
6-7	.0	1.9	7.4	9.3	5.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	3.7	5.6	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
10-11	.0	.0	1.9	11.1	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
12-13	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDET	.0	.0	1.9	5.6	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
TOTAL	1	6	16	20	4	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	34
PCT	1.9	11.1	29.6	37.0	7.4	9.3	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.55 114.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THOR	FOG	FOG WD	SMOKE	SPRAY	NO
				PCPN		FRZM		OR TIME	HOURL	LTNG	WD	PCPN	HAZE	BLWG	SIG
						PCPN					PCPN	PAST HR		BLWG	WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	.0	22.2	.0	95.0
NE	19.4	12.9	.0	.0	.0	.0	.0	12.3	.0	19.4	.0	.0	.0	.0	67.7
E	16.7	6.3	.0	.0	.0	.0	.0	22.9	.0	29.2	.0	.0	.0	.0	52.1
SE	10.1	6.3	.0	.0	.0	.0	.0	18.5	.0	2.5	.0	.0	.0	.0	89.5
S	2.7	5.3	.0	.0	.0	.0	.0	8.0	5.3	8.0	.0	.0	.0	.0	81.3
SW	6.7	17.8	.0	.0	.0	.0	.0	24.4	.0	4.4	.0	.0	.0	.0	71.1
W	6.5	15.2	.0	.0	.0	.0	.0	21.7	.0	4.3	.0	.0	.0	.0	73.9
NW	.0	5.7	.0	.0	.0	.0	.0	5.7	.0	.0	11.4	.0	.0	.0	82.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	91.7
TOT PCT	7.0	9.3	.8	.0	.0	.0	.0	17.1	.8	7.6	.8	.0	.8	.0	75.2
TOT OBS:	129														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THOR	FOG	FOG WD	SMOKE	SPRAY	NO
				PCPN		FRZM		OR TIME	HOURL	LTNG	WD	PCPN	HAZE	BLWG	SIG
						PCPN					PCPN	PAST HR		BLWG	WEA
0000	4.4	6.7	.0	.0	.0	.0	.0	11.1	.0	.0	4.4	.0	2.2	.0	82.2
0600	3.0	6.1	3.0	.0	.0	.0	.0	12.1	3.0	.0	.0	.0	.0	.0	84.8
1200	12.8	15.4	.0	.0	.0	.0	.0	28.2	.0	15.4	.0	.0	.0	.0	64.1
1800	4.3	4.3	.0	.0	.0	.0	.0	8.7	.0	21.7	.0	.0	.0	.0	69.6
TOT PCT	6.4	8.6	.7	.0	.0	.0	.0	15.7	.7	7.7	1.4	.0	.7	.0	75.7
TOT OBS:	140														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
								OBS	PRPG	SPD								
N	.3	.8	.0	.0	.0	.0		1.7	3.8		1.9	1.7	.0	.0	2.8	.0	14.6	.9
NE	.8	2.0	.2	.0	.0	.0		3.1	5.0		1.9	3.7	8.3	4.3	2.0	3.1	.0	1.9
E	1.9	1.8	.7	.0	.0	.0		4.4	5.6		4.8	3.7	16.7	3.2	4.4	3.8	14.6	1.9
SE	2.4	7.3	1.5	.0	.0	.0		11.2	6.8		13.5	13.6	10.4	12.8	9.3	8.7	18.8	5.6
S	2.9	8.3	1.5	.0	.0	.0		12.7	6.7		1.0	9.9	14.6	19.1	21.0	15.4	8.3	13.0
SW	1.7	15.4	4.4	.8	.5	.0		22.8	10.0		24.0	16.1	.0	28.7	20.6	32.7	8.3	21.3
W	1.8	11.8	10.5	2.2	.6	.2		27.2	12.3		31.7	26.4	8.3	21.3	22.6	24.0	20.8	49.5
NW	1.2	3.8	2.4	.6	.8	.2		9.2	13.6		13.5	12.4	.0	6.4	4.0	7.7	6.3	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0		7.7	12.4	41.7	4.3	3.2	3.8	8.3	1.9
TOT OBS	88	211	88	15	8	2	412		9.0		32	121	12	47	62	52	12	34
TOT PCT	21.4	51.2	21.4	3.6	1.9	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.5	.2	.0	.0	.0		1.7	3.8	1.7	.0	1.3	3.4	
NE	2.8	.5	.0	.0	.0		3.1	5.0	2.2	3.1	2.9	1.5	
E	3.2	1.2	.0	.0	.0		4.4	5.6	4.0	3.9	4.2	4.2	
SE	6.5	4.2	.5	.0	.0		11.2	6.8	13.8	12.3	9.0	8.0	
S	7.3	4.9	.5	.0	.0		12.7	6.7	7.2	18.2	16.4	12.1	
SW	6.9	12.3	3.2	.4	.1		22.8	10.0	18.5	22.9	31.6	18.9	
W	6.3	13.8	5.8	.6	.6		27.2	12.3	28.0	18.8	23.2	39.4	
NW	3.8	3.2	.5	1.2	.3		9.2	13.6	12.7	3.1	3.7	9.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.8						7.8	.0	11.0	11.9	3.5	3.0	
TOT OBS	189	166	43	9	5	412		9.0	173	99	114	66	
TOT PCT	45.9	40.3	10.4	2.2	1.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

DECEMBER

AREA 0012 SOUTHEAST JAVA
9.95 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	11.0	14.5	50.9	16.8	3.5	3.5	.0	8.5	100.0	173
06009	11.9	5.1	55.9	25.4	1.7	.0	.0	8.4	100.0	59
12015	3.5	10.5	59.6	19.3	4.4	.9	1.8	9.8	100.0	114
18021	3.0	24.2	33.3	33.3	4.5	1.5	.0	9.4	100.0	66
TOT	32	56	211	88	15	8	2	9.0		412
PCT	7.8	13.6	51.2	21.4	3.6	1.9	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.2	6.0	.0		5.2
NE	2.2	2.2	4.3	.0		4.7
E	1.6	6.5	4.3	3.8		5.1
SE	2.7	2.7	8.7	.5		5.0
S	.0	6.0	.0	.0		3.3
SW	.0	.5	7.1	.0		6.0
W	2.2	9.7	1.6	2.2		3.8
NW	.0	1.1	2.7	.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	6.5	7.2	6.5	4.3		4.5
TOT OBS	7	15	19	5	46	4.7
TOT PCT	15.2	32.6	41.3	10.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	
.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	6.5	
1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.7	
.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	
.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	3.3	
.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	13.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	17.4	
1	0	0	1	1	3	0	0	0	0	40	46
2.2	.0	.0	2.2	2.2	6.5	.0	.0	.0	.0	87.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	4.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
= OR >1000	6.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
= OR >600	8.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
= OR >300	8.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
= OR >150	8.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
= OR >0	8.2	12.2	12.2	12.2	12.2	12.2	14.3	14.3
TOTAL	4	6	6	6	6	7	7	7

TOTAL NUMBER OF OBS: 49

PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
9.0	18.2	42.4	18.2	7.6	.0	4.5	1.5	3.0	1.5	66

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1954-1971

DECEMBER

AREA 0012 SOUTHEAST JAVA
9.95 114.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.0	.8	.4	.4	.0	.0	.0	1.6	
5<10	PCP	.0	1.2	.8	1.9	.8	3.9	2.7	.4	.0	.8	12.4	
	NO PCP	.0	.8	1.9	7.8	3.5	4.9	3.1	2.7	.0	.0	24.0	
	TOT %	.0	1.9	2.7	9.7	4.3	8.1	5.8	3.1	.0	.8	36.4	
10+	PCP	.0	.8	.8	.4	.4	.0	.8	.0	.0	.0	3.1	
	NO PCP	3.5	3.3	5.2	5.0	9.1	8.9	10.9	2.9	.0	8.5	57.4	
	TOT %	3.5	4.1	6.0	5.4	9.5	8.9	11.6	2.9	.0	8.5	60.5	
TOT OBS													129
TOT PCT		3.5	6.0	9.3	15.3	14.5	17.4	17.8	6.8	.0	9.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
1<2	0-3	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.7	.4	.4	.0	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.0	.7	.4	.4	.0	.0	.0	2.2	
5<10	0-3	.0	.0	1.1	1.1	.0	1.4	.7	.0	.0	.7	5.0	
	4-10	.0	1.8	1.4	7.2	3.2	4.7	2.5	2.9	.0	.0	23.7	
	11-21	.0	.0	.0	.7	.7	.7	.7	.0	.0	.0	2.9	
	22+	.0	.0	.0	.0	.0	.7	1.4	.0	.0	.0	2.2	
	TOT %	.0	1.8	2.5	9.0	4.0	7.6	5.4	2.9	.0	.7	33.8	
10+	0-3	.7	.7	2.7	2.0	2.5	.7	.0	.7	.0	7.9	18.0	
	4-10	2.5	3.1	.7	3.6	6.1	8.5	6.3	1.6	.0	.0	32.4	
	11-21	.0	.0	2.2	.2	1.6	1.6	4.1	.4	.0	.0	10.1	
	22+	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4	
	TOT %	3.2	3.8	5.6	5.8	10.3	10.8	11.9	2.7	.0	7.9	61.9	
TOT OBS													139
TOT PCT		3.2	5.9	9.7	14.9	14.9	18.7	17.8	6.3	.0	8.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1854-1971

AREA 0012 SOUTHEAST JAVA
9.95 114.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	10.5	89.5	19
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	21
12015	7.1	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	28.6	71.4	14
18021	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	8.3	91.7	12
TOT	1	0	0	1	2	3	0	0	0	0	7	59	66
PCT	1.5	.0	.0	1.5	3.0	4.5	.0	.0	.0	.0	10.6	89.4	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	4.3	.0	2.2	34.8	58.7	46
06009	.0	.0	.0	.0	25.7	74.3	35
12015	2.4	.0	7.4	4.8	40.5	50.0	42
18021	.0	.0	.0	.0	25.9	74.1	27
TOT	1	2	1	3	49	94	150
PCT	.7	1.3	.7	2.0	32.7	62.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	7.7	7.7	84.6	13
06009	.0	.0	.0	.0	100.0	17
12015	10.0	10.0	10.0	30.0	60.0	10
18021	.0	.0	.0	11.1	88.9	9
TOT	1	1	2	5	42	49
PCT	2.0	2.0	4.1	10.2	85.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.2	12.0	1.1	.0	14	15.2
80/84	.0	.0	.0	.0	3.3	35.9	27.2	6.5	67	72.8
75/79	.0	.0	.0	.0	.0	1.1	6.5	4.3	11	12.0
TOTAL	0	0	0	0	5	45	32	10	92	100.0
PCT	.0	.0	.0	.0	5.4	48.9	34.8	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	5.4	1.1	2.2	2.7	1.6	.0	2.2	
1.9	6.5	7.3	10.3	12.8	7.9	13.3	5.2	.0	7.6	
1.1	.0	1.6	1.6	1.1	3.3	2.2	1.1	.0	.0	
3.0	6.5	9.0	17.4	14.9	13.3	18.2	7.9	.0	9.8	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	93	91	84	79	77	77	84.4	174
06009	92	91	87	84	78	76	76	83.7	58
12015	87	86	86	82	79	78	78	82.4	108
18021	89	88	84	82	78	75	75	81.4	63
TOT	94	93	89	83	79	77	75	83.5	403

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	16.2	40.5	32.4	10.8	78	37
06009	.0	.0	7.7	73.1	19.2	.0	75	26
12015	.0	.0	4.3	30.4	47.8	17.4	82	23
18021	.0	.0	6.3	37.5	43.8	12.5	80	16
TOT	0	0	10	47	35	10	79	102

PERIOD: (PRIMARY) 1869-1971
(OVER-ALL) 1894-1971

DECEMBER

AREA 0012 SOUTHEAST JAVA
9.55 114.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	N FOG	NO FOG
6	.0	.0	.9	1	.0	.9
4	.0	.9	.9	2	.0	1.9
3	.0	.9	.0	1	.0	.9
2	.0	2.8	2.8	6	.9	4.7
1	.0	.9	6.5	8	.0	7.5
0	.0	17.8	5.6	25	.9	22.4
-1	.0	14.0	2.8	18	.0	16.8
-2	.0	15.9	.0	17	.0	15.9
-3	2.8	9.3	.0	13	.0	12.1
-4	2.8	7.5	.0	11	.0	10.3
-5	1.9	.9	.0	3	.0	2.8
-6	.9	.9	.0	2	.0	1.9
TOTAL	9	77	21	107	2	105
PCT	8.4	72.0	19.6	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	9.1	.0	.0	.0	.0	9.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	.0	.0	.0	.0	5.3	.0	9.1	.0	.0	.0	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	6.1	.0	.0	.0	.0	.0	6.1	.0	6.1	.0	.0	.0	.0	6.1
1-2	2.3	.0	3.0	.0	.0	.0	5.3	.0	9.1	.0	.0	.0	.0	9.1
3-4	.0	.0	6.1	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.3	.0	9.1	.0	.0	.0	17.4	.8	15.2	.0	.0	.0	.0	15.9

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

AREA 0012 SOUTHEAST JAVA
9.55 114.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.0	3.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	3.0	3.0	.0	.0	.0	9.1	.0	3.8	.0	.0	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.1	6.1	.0	.0	.0	12.1	.0	3.8	.0	.0	.0	.0	3.8	.0
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	6.1	.0	.0	.0	14.4	.0	3.8	.0	.0	.0	.0	3.8	78.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	34.3	11.4	.0	.0	.0	.0	45.7	
1-2	2.9	28.6	11.4	.0	.0	.0	42.9	
3-4	.0	5.7	5.7	.0	.0	.0	11.4	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	37.1	45.7	17.1	.0	.0	.0	100.0	35

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	16.3	22.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	2
6-7	.0	4.1	8.2	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	2.0	4.1	10.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
10-11	.0	2.0	4.1	.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	10.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	1
TOTAL	7	12	20	7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	49	3
PCT	14.3	24.3	40.9	14.3	4.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1864-1973

ANNUAL

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN CHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.9	1.4	.0	.0	.0	.0	1.4	3.7	.4	8.5	.2	.0	1.9	.0	60.8
NE	9.8	6.6	.0	.0	.0	.0	.0	16.4	.6	8.3	1.0	.0	8.1	.0	70.1
E	5.9	2.9	.0	.0	.0	.0	.0	8.8	1.9	10.6	2.6	.0	1.2	.0	76.8
SE	4.8	3.0	.5	.0	.0	.0	.0	8.3	1.4	9.2	2.4	.0	1.4	.0	85.2
S	1.0	3.1	.0	.0	.0	.0	.0	4.1	1.3	9.8	2.3	.0	3.4	.0	85.4
SW	4.0	2.7	.0	.0	.0	.0	.0	6.7	.2	1.2	.9	.0	.9	.0	90.2
W	3.5	3.3	.0	.0	.0	.0	.0	6.8	1.8	1.4	.5	.0	.3	.0	73.0
NW	4.1	1.1	.0	.0	.0	.0	.0	5.2	.6	1.7	1.0	.0	6.9	.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	.0	.7	.0	.0	.0	.0	3.3	2.1	2.6	2.1	.0	.0	.0	81.6
TOT PCT	3.5	3.1	.1	.0	.0	.0	.1	6.8	1.2	3.4	2.1	.0	1.9	.0	85.7
TOT OBS:	1863														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN CHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	2.6	4.1	.0	.0	.0	.0	.0	6.7	1.4	.8	3.2	.0	3.6	.0	84.8
06009	2.1	2.8	.5	.0	.0	.0	.0	5.4	1.8	.7	2.2	.0	1.3	.0	88.8
12015	4.5	2.9	.0	.0	.0	.0	.2	7.6	.5	5.0	1.3	.0	1.5	.0	85.7
18021	4.9	1.9	.2	.0	.0	.0	.3	7.3	.9	9.2	1.8	.0	.7	.0	82.7
TOT PCT TOT OBS:	3.5 1972	3.1	.2	.0	.0	.0	.1	6.8	1.1	3.6	2.2	.0	1.9	.0	85.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	1.0	.2	.0	.0	.0		1.9	5.5	2.0	2.2	2.5	.9	1.8	1.4	3.6	2.2	
NE	1.0	1.9	.4	.0	.0	.0		3.4	6.2	4.3	4.2	3.2	2.6	3.0	2.7	3.0	2.7	
E	1.6	11.2	7.8	.7	.1	.0		21.3	8.7	22.8	22.7	23.4	20.9	18.7	20.3	22.7	21.2	
SE	2.4	17.2	10.7	.6	.0	.0		30.9	8.8	28.4	30.2	31.3	34.0	34.7	30.5	32.3	26.7	
S	2.1	8.0	7.2	.1	.0	.0		12.4	7.2	10.8	11.2	11.7	14.3	14.2	13.1	11.6	11.8	
SW	1.4	5.7	1.9	.2	.0	.0		9.2	7.5	7.7	7.2	4.7	10.3	10.6	10.2	6.0	12.2	
W	1.3	5.7	3.7	.9	.1	.0		11.8	8.0	12.9	11.8	14.4	11.4	10.6	12.0	12.2	12.2	
NW	.8	2.4	1.0	.3	.1	.0		4.6	7.0	6.8	4.8	3.3	3.0	3.3	4.6	4.9	5.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5							4.5	.0	4.3	5.6	5.6	2.7	3.1	5.1	3.6	5.3	
TOT OBS							7404		8.9	1087	1564	213	954	1301	986	238	1081	
TOT PCT	15.7	53.2	27.4	2.8	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	1.3	.6	.0	.0	.0	.0		1.9	5.5	2.2	1.2	1.6	2.3
NE	2.1	1.2	.0	.0	.0			3.4	6.2	4.4	2.8	2.9	2.8
E	6.3	12.0	2.7	.2	.0			21.3	8.7	22.8	21.4	19.4	21.5
SE	9.1	18.4	3.2	.1	.0			30.9	8.8	28.4	33.7	33.0	27.9
S	6.2	5.6	.6	.0	.0			12.4	7.2	11.1	13.8	13.8	11.8
SW	4.2	4.2	.8	.1	.0			9.2	7.5	7.4	9.3	10.4	11.0
W	3.8	5.5	2.1	.3	.1			11.8	8.0	12.1	11.7	11.2	12.2
NW	2.1	1.8	.4	.2	.1			4.6	7.0	5.5	3.0	3.9	5.5
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	3.2	3.3	3.9	5.0
TOT OBS						7404		8.9		2651	1167	2267	1319
TOT PCT	19.7	49.4	9.9	.9	.2			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.2	13.6	50.3	27.2	3.1	.7	.0	8.8	100.0	2651
0600	3.3	6.7	55.1	31.7	3.0	.1	.0	9.5	100.0	1167
1200	3.9	10.5	55.2	27.4	2.5	.3	.1	8.9	100.0	2267
1800	5.0	11.7	53.6	26.9	2.5	.4	.0	8.6	100.0	1919
TOT								8.9		7404
PCT	4.5	11.2	53.2	27.9	2.8	.4	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10SCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	1.7	.3		3.6
NE	.9	.8	1.1	.6		3.5
E	9.1	5.9	5.7	1.4		3.8
SE	13.1	9.7	7.9	1.8		3.8
S	4.9	3.8	2.1	.8		3.1
SW	1.8	1.9	1.7	*		3.2
W	2.9	3.7	3.9	3.1		2.9
NW	1.0	1.2	1.4	1.3		1.7
VAP	.0	.0	.0	.0		.0
CALM	1.4	.8	1.0	.8		2.8
TOT OBS					773	3.8
TOT PCT	35.2	28.7	26.6	10.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.0	.0	.3	.3	.2	.0	.0	.0	1.6	
NE	.0	.4	.0	.1	.5	.4	.0	.1	.0	.0	2.3	
E	.1	.6	.1	.6	.9	.6	.9	.1	.0	.0	19.0	
SE	*	.0	.1	.7	2.1	.9	.7	.1	.1	.0	27.8	
S	.0	.0	.0	.5	.4	.1	.3	.0	.0	.0	10.4	
SW	.0	.5	.0	.0	.2	.5	.1	*	.0	.0	4.5	
W	.0	.0	.2	.8	2.3	1.0	.2	.3	.0	.0	8.8	
NW	.0	.0	*	.2	.9	.1	.1	*	.0	.0	3.2	
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	3.5	
TOT OBS											773	
TOT PCT	.2	.1	.5	3.2	7.8	4.0	2.5	.4	.1	.0	81.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.5	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	5.4	6.7	7.0	7.0	7.2	7.2	7.2	7.2
* OR >1000	11.8	14.4	15.0	15.0	15.1	15.1	15.1	15.1
* OR >600	13.9	17.4	18.2	18.2	18.3	18.3	18.3	18.3
* OR >300	14.2	17.7	18.6	18.7	18.8	18.8	18.8	18.8
* OR >150	14.2	17.7	18.6	18.8	18.9	18.9	18.9	18.9
* OR >0	14.2	17.7	18.6	18.8	18.9	19.1	19.1	19.1

TOTAL NUMBER OF OBS: 796

PCT FREQ NH <5/8: 80.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	UBSCD	TOTAL OBS
8.3	17.7	28.0	17.8	9.3	5.7	5.5	2.4	5.7	.1	868

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.1	.3	.1	*	.1	.1	.0	.1	.8	
	TOT %	.0	.1	.1	.3	.1	*	.1	.1	.0	.1	.8	
1<2	PCP	*	.1	.0	.0	.0	*	.0	.1	.0	.0	.2	
	NO PCP	.0	.1	.3	.5	.2	.1	.1	.2	.0	.0	1.5	
	TOT %	*	.2	.3	.5	.2	.2	.1	.2	.0	.0	1.7	
2<5	PCP	.1	.1	*	.0	*	*	.2	.0	.0	.0	.5	
	NO PCP	.0	.3	.5	.1	.2	.2	*	*	.0	.0	1.3	
	TOT %	.1	.3	.5	.1	.3	.2	.2	*	.0	.0	1.8	
5<10	PCP	.1	.3	.9	.8	.3	.4	1.0	.4	.0	.2	4.6	
	NO PCP	.8	1.3	5.7	10.0	4.1	3.3	3.3	2.1	.0	.5	31.2	
	TOT %	.9	1.6	6.6	10.8	4.4	3.9	4.3	2.6	.0	.7	35.8	
10+	PCP	*	.2	.3	.2	.1	.1	.4	.1	.0	.0	1.5	
	NO PCP	1.9	1.7	12.2	20.5	7.8	3.2	6.3	2.7	.0	2.1	58.3	
	TOT %	1.9	1.9	12.5	20.7	7.9	3.3	6.7	2.8	.0	2.1	59.8	
TOT OBS													1862
TOT PCT		3.0	4.1	20.1	32.5	12.9	7.6	11.4	5.7	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	4-10	.1	.0	.1	.2	*	.0	.1	.0	.0	.0	.4	
	11-21	.0	*	.0	*	*	.0	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	TOT %	.1	*	.1	.2	.1	.1	.1	.1	.0	*	.7	
1<2	0-3	*	.1	*	.0	*	*	.0	*	.0	.1	.3	
	4-10	*	.1	.2	.3	.2	.1	.1	.1	.0	.0	1.1	
	11-21	.0	*	.1	*	.1	.0	.0	*	.0	.0	.3	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	.3	.4	.4	.3	.1	.1	.2	.0	.1	1.7	
2<5	0-3	*	.1	.2	*	*	.1	*	.0	.0	.1	.5	
	4-10	.0	.2	.3	.1	.2	.1	.1	*	.0	.0	1.0	
	11-21	*	.0	.1	*	.0	.0	.1	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
	TOT %	.1	.2	.5	.1	.3	.2	.3	*	.0	.1	1.7	
5<10	0-3	.1	.3	.6	.5	.7	.4	.2	.7	.0	.6	3.6	
	4-10	.4	.8	2.9	4.2	1.9	2.0	1.7	.9	.0	.0	14.6	
	11-21	.2	.1	1.1	2.7	.5	.3	1.0	.7	.0	.0	6.3	
	22+	.0	.0	.1	.3	.0	.1	.4	.1	.0	.0	1.0	
	TOT %	.6	1.2	4.6	7.7	3.0	2.8	3.2	1.9	.0	.6	25.7	
10+	0-3	.6	.7	1.3	2.3	1.4	.6	.7	.6	.0	3.9	12.0	
	4-10	1.4	1.5	9.1	13.9	5.9	3.1	4.5	1.8	.0	.0	41.3	
	11-21	.3	.1	4.2	7.3	1.2	.9	1.8	.4	.0	.0	16.1	
	22+	*	.0	.2	.1	.1	.0	.3	*	.0	.0	.7	
	TOT %	2.2	2.3	14.7	23.6	8.6	4.6	7.2	2.9	.0	3.9	70.1	
TOT OBS													2842
TOT PCT		3.1	4.1	20.3	32.0	12.2	7.8	10.9	5.1	.0	4.7	100.0	

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.0	4.7	8.2	3.4	3.8	.0	.0	.0	21.2	78.8	216
06009	.0	.0	.0	3.8	6.3	3.8	.6	.5	.0	.0	14.9	85.1	216
12015	.6	.0	.0	2.4	9.7	3.7	1.8	.6	.4	.0	19.3	80.7	193
18021	.0	.4	.6	1.8	5.8	3.9	3.4	.8	.0	.0	16.7	83.3	232
TOT PCT	.1	.1	.5	3.0	7.5	3.7	2.4	.5	.1	.0	17.9	82.1	857 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.5	2.2	1.8	28.9	65.6	877
06009	.0	.5	1.1	.9	22.7	75.0	532
12015	.2	.4	2.4	2.4	29.7	64.9	914
18021	.0	.7	.8	1.3	22.4	74.8	629
TOT PCT	.1	.8	1.7	1.6	26.5	69.2	2952 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	7.6	15.7	76.8	203
06009	.0	.0	4.6	11.5	84.0	197
12015	.8	.8	4.0	17.5	78.5	182
18021	.0	2.4	6.0	13.1	80.9	214
TOT PCT	.2	1.0	5.3	14.4	80.3	796 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.1	.0	.0	.5	
85/89	.0	.0	.0	.1	1.6	5.3	2.4	.3	9.8	
80/84	.0	.0	.0	.2	3.0	23.0	31.1	5.4	62.8	
75/79	.0	.0	.0	.1	.9	7.2	12.3	5.7	26.5	
70/74	.0	.0	.0	.0	.0	.0	.2	.3	.5	
TOTAL PCT	.0	.0	.0	.5	5.8	35.6	46.3	11.8	1363	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.2	.1	.0	.0	.1	.1	.0	.0
85	.4	.3	1.8	2.2	.2	.9	1.7	.7	.0	.6
80	1.9	2.3	13.3	18.4	7.0	5.0	8.8	4.1	.0	2.0
75	.3	.8	5.5	12.7	3.2	.9	1.6	1.0	.0	.4
70	.0	.0	.1	.1	.1	.0	.1	.2	.0	.0
TOTAL	2.6	3.4	20.9	33.5	11.5	6.9	12.3	6.1	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	88	87	82	78	76	72	82.4	2615
06009	93	89	87	83	79	75	72	82.8	1145
12015	93	86	84	81	77	76	72	81.1	2210
18021	90	84	83	80	77	75	73	80.0	1313
TOT	94	88	86	81	78	76	72	81.6	7283

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	5.3	38.5	45.0	10.9	81	436		
06009	.0	1.5	14.6	45.5	23.6	4.7	77	285		
12015	.0	.0	3.7	30.7	52.2	13.4	82	389		
18021	.0	.4	2.9	27.9	51.2	17.6	83	332		
TOT	0	7	90	516	673	176	81	1462		

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1894-1973

ANNUAL

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
7/8	.0	.0	.0	.2	.3	.4	.0	14	.0	.9
6	.0	.0	.0	.2	.2	.3	.0	9	.0	.7
5	.0	.0	.1	.4	.7	.3	.0	24	.0	1.6
4	.0	.0	.4	1.1	.9	.7	.0	37	.1	2.5
3	.0	.0	.3	2.4	1.5	.1	.0	60	.1	4.2
2	.0	.1	1.2	5.3	1.7	.0	.0	122	.5	7.9
1	.0	.5	3.2	5.1	2.2	.0	.0	160	.5	10.5
0	.0	.8	7.8	14.7	2.0	.0	.0	359	1.1	24.2
-1	.0	.3	6.4	8.7	.9	.0	.0	235	.1	16.3
-2	.0	.8	3.8	8.6	.3	.0	.0	197	.1	13.5
-3	.0	.1	2.2	2.8	.2	.0	.0	78	.0	5.4
-4	.0	.5	2.6	1.8	.0	.0	.0	71	.1	4.8
-5	.0	.4	1.1	1.0	.1	.0	.0	37	.0	2.6
-6	.0	.2	.7	.1	.0	.0	.0	15	.0	1.0
-7/-8	.1	.3	.4	.0	.0	.0	.0	11	.0	.7
-9/-10	.0	.1	.4	.0	.0	.0	.0	8	.0	.5
-11/-13	.0	.2	.0	.0	.0	.0	.0	4	.0	.2
TOTAL								1444		
PCT	.1	4.4	30.6	52.4	11.1	1.3	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.9	.0	.0	.0	.0	.9	.1	1.1	.0	.0	.0	.0	1.2
3-4	.0	.5	.6	.0	.0	.0	1.2	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.6	.0	.0	.0	2.5	.1	1.6	.1	.0	.0	.0	1.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	1.0	.0	.0	.0	.0	1.7	.8	3.5	.0	.0	.0	.0	4.3
1-2	.4	6.2	1.2	.0	.0	.0	7.7	.2	8.6	3.5	.0	.0	.0	12.4
3-4	.0	3.7	5.2	.5	.0	.0	9.4	.0	3.4	6.6	.2	.0	.0	10.1
5-6	.0	1.2	2.1	.2	.0	.0	3.5	.0	.1	3.7	.1	.0	.0	3.8
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.2	.3	.0	.0	1.6
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.0	9.8	1.1	.0	.0	24.0	1.1	15.5	15.2	.7	.0	.0	32.5

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0012 SOUTHEAST JAVA
9.05 114.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4	.2	.2	.0	.0	.0	.0	.5
1-2	.0	4.2	.4	.0	.0	.0	4.6	.2	1.5	.8	.0	.0	.0	2.5
3-4	.0	2.1	.8	.0	.0	.0	3.0	.0	.6	.3	.0	.0	.0	.9
5-6	.0	1.2	.8	.2	.0	.0	2.2	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.3	2.1	.2	.0	.0	11.3	.4	2.3	1.3	.0	.0	.0	4.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	.3	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	5.8	1.7	.0	.0	.0	7.4	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	1.1	2.9	.0	.0	.0	4.0	.0	1.2	.7	.0	.0	.0	1.9	
5-6	.0	.0	2.1	.2	.0	.0	2.3	.0	.0	.8	.0	.0	.0	.8	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	7.2	6.9	.6	.0	.0	15.5	.0	3.2	1.5	.0	.0	.0	4.7	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	7.6	.0	.0	.0	.0	16.3	
1-2	.9	29.0	7.3	.0	.0	.0	37.2	
3-4	.0	12.3	16.8	.4	.0	.0	29.8	
5-6	.0	2.3	9.2	.4	.0	.0	12.4	
7	.0	.0	3.0	.3	.0	.0	3.3	
8-9	.0	.0	.3	.5	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	51.5	36.6	2.4	.0	.0	100.0	415

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	11.9	14.9	5.3	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	3
6-7	.2	2.3	8.2	6.2	3.3	1.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	4
8-9	.0	.4	3.0	5.1	5.7	1.3	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	6
10-11	.0	.8	1.3	2.2	2.8	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	6
12-13	.0	.0	1.1	.5	.2	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
>13	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDEX	5.8	1.4	2.1	1.3	.8	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	2
TOTAL PCT	9.0	16.6	30.6	20.7	14.1	6.8	.7	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	628	4

PERIOD: (PRIMARY) 1864-1973
(OVER-ALL) 1854-1973

AREA 0312 SOUTHEAST JAVA
9.05 114.3E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.8	.6	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.4
87/88	4.0	3.8	4.4	1.8	.3	.5	.0	.0	.0	.0	.2	1.4	26	.4
85/86	19.5	21.4	23.2	18.9	6.3	3.5	.9	.0	.0	.0	2.3	4.8	133	2.1
83/84	38.1	44.9	43.0	43.7	34.0	10.2	1.5	.8	1.6	13.7	35.8	37.5	1777	27.4
81/82	37.1	25.1	24.6	30.9	37.0	41.3	15.7	8.6	16.2	36.9	38.0	25.6	1786	27.5
79/80	3.7	3.3	3.2	3.3	17.8	28.4	30.3	22.6	33.2	27.5	12.1	3.4	919	14.2
77/78	1.3	.7	.3	1.0	4.0	11.3	27.7	42.1	31.1	15.9	1.0	.3	668	10.3
75/76	.2	.0	.2	.2	.5	2.5	17.9	16.8	14.2	2.1	.0	.0	269	4.1
73/74	.3	.0	.0	.2	.0	1.8	6.3	7.4	2.8	.8	.0	.0	99	1.5
71/72	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0	.0	10	.2
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	87.5	81.7	63.3	50.8	40.0	43.3	54.1	49.9	43.1	48.3	51.9	35.2	6491	100.0
MEAN	83.2	83.4	83.6	83.1	81.9	80.5	78.2	77.6	78.5	80.5	82.5	83.7	81.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MC	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1009	1008	1007	1009	1009	1009	1007	1008	187
FEB	1010	1009	1008	1007	1009	1009	1008	1008	1009	217
MAR	1010	1009	1007	1007	1008	1010	1009	1008	1009	216
APR	1010	1010	1009	1008	1010	1010	1009	1010	1010	146
MAY	1011	1010	1009	1008	1010	1011	1010	1011	1010	151
JUN	1013	1012	1011	1011	1011	1012	1012	1011	1012	183
JUL	1013	1012	1011	1010	1012	1012	1012	1011	1012	179
AUG	1013	1013	1013	1010	1012	1013	1012	1011	1012	192
SEP	1014	1013	1012	1011	1012	1013	1012	1012	1012	157
OCT	1013	1012	1010	1010	1011	1011	1011	1011	1011	172
NOV	1011	1010	1009	1008	1010	1010	1010	1010	1010	171
DEC	1010	1009	1008	1008	1009	1009	1009	1008	1009	170
ANN	1011	1011	1010	1009	1010	1011	1010	1010	1010	2141
OBS	372	414	208	186	335	196	239	191		

PERCENTILES

MC	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1003	1004	1007	1009	1010	1012	1013	1014
FEB	1002	1003	1005	1007	1009	1010	1012	1013	1014
MAR	1002	1003	1005	1007	1009	1010	1012	1013	1017
APR	1005	1005	1006	1008	1009	1011	1012	1016	1017
MAY	1003	1005	1006	1009	1010	1011	1014	1014	1015
JUN	1009	1006	1008	1010	1012	1013	1014	1015	1016
JUL	1008	1008	1009	1011	1012	1013	1014	1015	1016
AUG	1005	1006	1009	1011	1012	1013	1015	1016	1017
SEP	1008	1008	1010	1011	1012	1014	1015	1016	1017
OCT	1007	1007	1009	1010	1011	1012	1015	1015	1016
NOV	1004	1005	1007	1009	1010	1011	1013	1014	1015
DEC	1003	1004	1005	1007	1009	1010	1012	1013	1014

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.88

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	95.7
NE	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	13.0	.0	.0	.0	.0	87.0
E	5.3	5.3	.0	.0	.0	.0	.0	10.5	21.1	5.3	.0	.0	.0	.0	68.4
SE	18.5	3.7	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	1.9	.0	75.9
S	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0	3.2	.0	90.4
SW	4.2	6.8	.0	.0	.0	.0	.0	10.9	.0	4.2	.0	.0	1.0	.0	85.9
W	9.0	9.1	1.0	.0	.0	.0	.0	19.1	.0	7.1	1.0	.0	.0	.0	73.7
NW	8.2	8.5	.6	.0	.0	.0	.0	17.3	.0	5.1	.6	.0	.0	.0	78.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	.0	3.4	.0	.0	.0	.0	6.9	.0	17.2	.0	.0	.0	.0	75.9
TOT PCT	7.5	6.9	.7	.0	.0	.0	.0	15.1	.9	6.3	.6	.0	.4	.0	78.4
TOT OBS:	536														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.3	6.7	.0	.0	.0	.0	.0	11.0	.6	.6	.6	.0	.6	.0	87.1
0600	5.8	12.6	.0	.0	.0	.0	.0	18.4	2.9	1.0	.0	.0	.0	.0	78.6
1200	11.4	4.0	2.3	.0	.0	.0	.0	17.7	.6	12.6	.0	.0	.0	.0	73.1
1800	10.3	6.3	.0	.0	.0	.0	.0	16.7	.0	11.1	1.6	.0	.8	.0	73.0
TOT PCT TOT OBS:	8.1 567	6.9	.7	.0	.0	.0	.0	15.7	.9	6.7	.5	.0	.4	.0	78.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	2.9	.1	.1	.0	.0		4.7	5.3		4.9	3.6	4.1	7.5	6.4	5.3	1.3	2.8
NE	2.1	1.9	.2	.0	.0	.0		4.2	4.4		1.5	4.5	2.3	6.2	7.4	6.1	2.5	1.8
E	1.0	1.4	.0	.0	.0	.0		2.4	4.4		2.1	4.7	5.7	1.0	2.0	2.9	.4	1.8
SE	.6	1.3	.4	.0	.0	.0		2.3	6.2		2.4	1.5	2.6	1.7	2.2	3.2	1.3	2.8
S	1.0	2.9	.2	.0	.0	.0		4.1	6.2		6.6	4.3	1.5	.3	3.1	3.5	5.5	5.8
SW	2.1	6.2	1.5	.2	.0	.0		10.0	7.3		13.5	9.2	7.5	4.8	5.2	11.0	9.7	16.3
W	4.5	19.1	11.9	1.7	.1	.0		37.3	9.8		44.9	37.8	36.1	32.2	31.3	31.0	47.3	40.6
NW	3.9	15.3	7.4	1.2	.1	.0		27.9	9.4		18.0	29.1	34.0	41.4	34.2	28.3	25.4	19.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.2							7.2	.0		6.3	5.3	6.2	4.8	8.1	8.6	6.7	8.8
TOT OBS	334	720	706	46	3	0	1409		7.9		206	133	97	146	272	187	119	249
TOT PCT	23.7	51.1	41.7	3.3	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.7	.8	.2	.0	.0		4.7	5.3	4.4	6.2	6.0	2.3	
NE	3.5	.7	.1	.0	.0		4.2	4.4	2.7	4.6	6.9	2.0	
E	2.0	.3	.0	.0	.0		2.4	4.4	3.1	2.9	2.4	1.4	
SE	1.4	.9	.0	.0	.0		2.3	6.2	2.1	2.1	2.6	2.3	
S	2.6	1.4	.1	.0	.0		4.1	6.2	5.7	.8	3.3	5.7	
SW	5.3	4.2	.6	.0	.0		10.0	7.3	11.8	5.9	7.6	14.1	
W	13.7	17.7	5.4	.5	.0		37.3	9.8	42.1	33.7	31.2	42.7	
NW	12.0	11.1	4.4	.4	.0		27.9	9.4	22.3	38.5	31.8	21.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.2						7.2	.0	5.9	5.3	8.3	8.2	
TOT OBS	723	522	151	12	1	1409		7.9	339	243	459	368	
TOT PCT	51.3	37.0	10.7	.9	.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1917-1949
(OVER-ALL) 1959-1969

JANUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.82

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00Z03	5.9	24.8	49.0	16.8	3.5	.0	.0	.0	7.1	100.0	339
06Z09	5.3	15.6	45.7	29.2	4.1	.0	.0	.0	8.9	100.0	243
12Z15	8.3	16.1	51.6	21.4	2.4	.2	.0	.0	7.8	100.0	459
18Z21	8.2	10.1	56.0	21.7	3.5	.5	.0	.0	8.3	100.0	368
TOT	101	233	720	308	46	3	0	7.9			1409
PCT	7.2	16.5	51.1	21.7	3.3	.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.8	1.4		7.3
NE	.0	.0	1.1	.3		5.4
E	.0	.0	1.1	1.1		7.5
SE	.0	.0	.0	2.2		8.0
S	.0	.0	.0	.8		5.6
SW	.0	1.1	3.8	.5		5.7
W	6.7	5.9	21.0	14.2		5.5
NW	3.0	4.8	14.2	5.1		.0
VAR	.0	.0	.0	.0		3.3
CALM	4.3	4.3	1.1	1.1		5.5
TOT OBS	13	15	40	25		
TOT PCT	14.0	16.1	43.0	26.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	294	594	994	1099	3494	4999	6499	7999			
N	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.6	
NE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.1	
E	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0	
W	.0	.0	.0	2.7	10.5	6.7	.0	.0	.0	.0	4.3	
NW	.0	.0	.0	4.8	5.4	.3	.0	.0	.0	.0	28.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	7	20	8	0	0	0	0	10.8	
TOT PCT	.0	.0	.0	7.5	21.5	8.6	.0	.0	.0	.0	62.4	93
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>10	>5	>2	>1	>1/2
OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >1500	9.3	9.3	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
OR >1000	21.6	25.8	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
OR >600	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
OR >300	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
OR >150	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
OR >0	24.7	32.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
TOTAL	24	31	37	37	37	37	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 97

PCT FREQ NH <5/8: 61.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.7	10.1	13.8	20.2	13.8	13.8	6.4	4.6	13.8	.0	109

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0013 SOUTHEAST JAVA SEA
0.35 112.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.1	.2	.6	.0	.0	.0	.9	
2<5	PCP	.0	.0	.0	.4	.2	.7	.9	.6	.0	.0	2.2	
	NO PCP	.0	.0	.3	.3	.0	.0	.3	.3	.0	.0	1.1	
	TOT %	.0	.0	.3	.7	.2	.7	1.2	.9	.0	.0	3.4	
5<10	PCP	.0	.1	.2	.2	.1	.7	3.0	3.8	.0	.2	10.3	
	NO PCP	1.2	.3	.5	.8	1.3	2.7	8.8	8.9	.0	1.1	23.2	
	TOT %	1.2	.4	.7	1.0	1.4	3.0	13.8	12.7	.0	1.3	33.4	
10+	PCP	.0	.0	.0	.0	.0	.9	.8	.0	.2	1.9		
	NO PCP	3.1	3.2	.8	.8	2.7	5.4	22.1	15.7	.0	3.9	58.0	
	TOT %	3.1	3.2	.8	.8	2.7	5.6	23.0	16.5	.0	4.1	59.9	
TOT OBS													536
TOT PCT													4.3 3.6 1.8 2.5 4.4 9.0 38.9 30.1 .0 5.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.1	.2	.4	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.6	.6	.0	.0	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.2	.3	.3	.1	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	4-10	.1	.1	.2	.2	.4	.8	.6	.4	.0	.0	2.8	
	11-21	.0	.0	.0	.2	.0	.2	1.0	.9	.0	.0	2.3	
	22+	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.2	
	TOT %	.1	.1	.2	.4	.4	1.0	1.6	1.6	.0	.1	5.6	
5<10	0-3	.3	.1	.1	.0	.1	.1	.4	.4	.0	.9	2.6	
	4-10	.6	.2	.3	.6	.9	1.0	4.7	3.9	.0	.0	12.3	
	11-21	.1	.0	.0	.0	.0	.7	3.8	4.1	.0	.0	8.6	
	22+	.1	.0	.0	.0	.0	.2	.6	.5	.0	.0	1.3	
	TOT %	1.1	.3	.4	.6	1.1	2.0	9.4	9.0	.0	.9	24.8	
10+	0-3	1.6	1.7	.5	.3	.8	2.4	4.1	3.0	.0	6.8	21.7	
	4-10	2.6	1.5	1.1	.5	1.3	2.9	11.8	12.5	.0	.0	34.0	
	11-21	.1	.0	.0	.1	.1	.4	5.4	3.9	.0	.0	10.0	
	22+	.1	.0	.0	.0	.0	.1	1.0	.6	.0	.0	1.7	
	TOT %	4.3	3.2	1.6	.9	2.2	5.8	22.2	20.5	.0	6.8	67.4	
TOT OBS													899
TOT PCT													5.5 3.6 2.2 1.9 3.8 9.1 34.3 31.0 .0 7.8 100.0

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969AREA 0013 SOUTHEAST JAVA SEA
0.35 112.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	100 299	200 399	300 499	400 599	500 699	600 799	700 899	800 999	900 1000	1000 1100	1100 1200	1200 1300	1300 1400	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.3	5.3	21.1	5.3	.0	.0	.0	36.8	63.2	19				
06009	.0	.0	.0	4.0	40.0	.0	.0	.0	.0	.0	44.0	56.0	25				
12015	.0	.0	.0	14.3	10.7	3.6	.0	.0	.0	.0	28.6	71.4	28				
18021	.0	.0	.0	3.1	18.8	12.5	.0	.0	.0	.0	34.4	65.6	32				
TOT	0	0	0	7	20	9	1	0	0	0	37	67	104				
PCT	.0	.0	.0	6.7	19.2	8.7	1.0	.0	.0	.0	35.0	64.4	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.0	.9	3.6	19.9	75.1	221
06009	.6	.0	.0	8.9	28.0	62.4	157
12015	1.5	.0	1.4	4.5	23.9	68.3	331
18021	1.4	.0	1.4	6.3	32.9	58.1	222
TOT	11	0	10	31	240	619	931
PCT	1.2	.0	1.1	5.5	25.8	66.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	10.5	26.3	63.2	19
06009	.0	.0	12.5	23.3	54.2	24
12015	.0	.0	22.2	7.4	70.4	27
18021	.0	.0	3.7	37.0	59.3	27
TOT	0	0	12	25	60	97
PCT	.0	.0	12.4	25.8	61.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.6	1.4	.0	8	2.2
85/89	.0	.0	.0	.0	.6	6.2	3.4	2.2	44	12.4
80/84	.0	.0	.0	.0	.3	13.8	41.3	17.7	280	73.0
75/79	.0	.0	.0	.0	.3	1.4	3.7	7.0	44	12.4
TOTAL	0	0	0	0	5	78	177	96	356	100.0
PCT	.0	.0	.0	.0	1.4	21.9	49.7	27.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.3	.0	.0	.0	.0	.4	.9	.7	.0	.0
85/89	.3	.3	.3	.0	.8	1.8	4.1	3.3	.0	1.4
80/84	3.3	1.9	1.8	2.7	3.2	4.1	27.5	24.3	.0	4.2
75/79	.6	.3	.0	.0	.3	1.8	5.3	4.1	.0	.0
TOT	4.4	2.5	2.1	2.7	4.4	8.1	37.9	32.4	.0	5.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	88	82	79	76	75	82.3	237
06009	95	91	87	83	78	77	76	89.0	239
12015	91	87	85	82	78	76	75	81.5	469
18021	88	85	83	81	77	76	75	80.6	273
TOT	95	90	86	82	78	76	75	81.7	1418

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.3	29.5	40.9	27.3	85	132
06009	.0	.0	1.6	33.3	47.6	17.5	82	63
12015	.0	.0	.0	10.9	56.4	32.7	87	110
18021	.0	.0	1.3	11.8	60.5	26.3	86	76
TOT	0	0	5	81	192	103	85	381

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0013 SOUTHEAST JAVA SEA
6.95 112.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.0	.5	2	.0	.5
5	.0	.0	.0	.5	1.1	6	.0	1.6
4	.0	.0	.3	.3	.3	3	.0	.8
3	.0	.0	1.6	.3	.5	9	.0	2.4
2	.0	.3	3.4	2.6	.0	24	.0	6.3
1	.0	.3	4.8	1.1	.0	23	.3	5.8
0	.0	1.6	19.3	1.6	.0	85	.0	22.5
-1	.0	1.6	9.5	1.6	.0	48	.0	12.7
-2	.0	7.4	16.7	.3	.0	92	.0	24.3
-3	.0	4.2	4.8	.5	.0	36	.0	9.5
-4	.3	4.0	4.0	.0	.0	31	.0	8.2
-5	.0	1.6	1.6	.0	.0	12	.0	3.2
-6	.3	.8	.0	.0	.0	4	.0	1.1
-7/-8	.3	.3	.0	.0	.0	2	.0	.5
TOTAL	3		249		10	378	1	377
PCT	.8	22.0	65.9	8.7	2.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.0	.0	.0	.0	3.4	.0	1.9	.0	.0	.0	.0	1.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1969

JANUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.88

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS ()

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	31.4	.4	.0	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.5	2.7	.0	.0	.0	.0	4.2	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	14.0	5.3	.0	.0	.0	19.3	4.5	2.3	5.3	.0	.0	.0	12.1	
3-4	.0	1.5	9.5	.0	.0	.0	11.0	.0	3.8	2.3	.0	.0	.0	6.1	
5-6	.0	.0	7.2	3.0	.0	.0	10.2	.0	.0	6.4	.0	.0	.0	6.4	
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	18.2	23.1	4.2	.0	.0	47.0	4.5	8.4	14.4	.4	.0	.0	25.8	87.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.6	6.1	.0	.0	.0	.0	19.7	
1-2	4.5	21.2	10.6	.0	.0	.0	36.4	
3-4	.0	7.6	15.2	.0	.0	.0	22.7	
5-6	.0	1.5	13.6	3.0	.0	.0	18.2	
7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	1.5	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.2	36.4	40.9	4.5	.0	.0	100.0	66

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	13.2	18.7	18.7	9.9	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	2
1-2	.0	.0	5.5	7.7	2.2	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
3-4	.0	.0	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
5-6	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	12.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	0
TOTAL	23	20	22	17	2	4	2	1	0	0	0	0	0	0	0	0	0	0	0	91	3
PCT	25.3	22.0	24.2	18.7	2.2	4.4	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

FEBRUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRAIN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	2.2	.0	.0	.0	95.5
NE	8.9	.0	.0	.0	.0	.0	.0	8.9	.0	4.4	8.9	.0	.0	.0	77.8
E	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	4.6	4.6	.0	.0	.0	83.9
SE	.0	3.4	.0	.0	.0	.0	.0	3.4	.0	.0	6.9	.0	.0	.0	89.7
S	10.3	5.1	2.6	.0	.0	.0	.0	17.9	.0	15.4	.0	.0	.0	.0	71.8
SW	6.4	.0	1.3	.0	.0	.0	.0	7.6	.0	.6	.0	.0	.0	.0	91.7
W	5.3	4.0	1.1	.0	.0	.0	.0	10.4	2.9	5.3	.0	.0	.0	.0	82.9
NW	5.5	1.3	.0	.0	.0	.0	.0	6.9	.5	4.0	.8	.0	.0	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	90.5
TOT PCT	5.2	2.5	.6	.0	.0	.0	.0	8.2	1.1	4.2	1.1	.0	.2	.0	85.8
TOT OBS:	522														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRAIN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	7.5	3.1	1.2	.0	.0	.0	.0	11.8	1.2	.6	.0	.0	.0	.0	86.3
06009	2.9	2.0	.0	.0	.0	.0	.0	4.9	2.9	1.0	1.0	.0	.0	.0	91.2
12015	4.7	2.9	.0	.0	.0	.0	.0	7.6	.6	7.6	1.8	.0	.6	.0	83.5
18021	6.7	2.5	.8	.0	.0	.0	.0	10.0	.0	6.7	2.5	.0	.0	.0	81.7
TOT PCT	5.6	2.7	.5	.0	.0	.0	.0	8.9	1.1	4.2	1.3	.0	.2	.0	85.4
TOT OBS:	553														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	2.3	3.8	.4	.0	.0	.0		6.6	5.4	4.0	9.7	2.3	10.2	7.8	7.4	4.3	4.7
NE	1.5	2.4	.0	.0	.0	.0		4.0	4.4	2.5	3.5	4.8	4.2	4.7	5.5	1.8	3.8
E	1.2	2.2	.1	.0	.0	.0		3.6	4.7	1.4	3.1	3.6	2.7	5.8	5.5	2.7	2.4
SE	1.1	1.5	.2	.0	.0	.0		2.8	5.2	3.0	3.5	1.5	2.4	3.2	2.4	1.8	3.8
S	.9	2.4	.2	.0	.0	.0		3.6	5.6	5.6	4.2	2.6	1.2	2.5	2.4	3.2	6.4
SW	1.6	5.1	.8	.0	.0	.0		7.5	6.2	13.0	6.4	7.7	4.2	6.0	3.2	12.4	9.2
W	3.5	18.7	10.2	.8	*	*		33.2	9.3	36.9	31.3	37.0	31.9	27.1	33.7	32.9	37.9
NW	3.8	16.7	9.5	.4	*	*		30.4	9.0	29.1	30.0	36.5	37.7	33.3	26.3	34.7	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3							8.3	.0	4.5	8.3	4.1	5.4	9.6	13.7	6.3	10.4
TOT OBS	331	718	291	17	1	0	1358		7.3	177	144	98	166	261	190	111	211
TOT PCT	24.4	52.9	21.4	1.3	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06 09	12 15	18 21	
N	4.5	2.1	.0	.0	.0		6.6	5.4	6.5	7.3	7.6	4.6	
NE	3.4	.6	.0	.0	.0		4.0	4.4	3.0	4.5	5.0	3.1	
E	3.1	.5	.0	.0	.0		3.6	4.7	2.2	3.0	5.7	2.5	
SE	2.2	.6	.1	.0	.0		2.8	5.2	3.2	2.1	2.8	3.1	
S	2.5	1.1	.0	.0	.0		3.6	5.6	5.0	1.7	2.4	5.3	
SW	5.0	2.3	.2	.0	.0		7.5	6.2	10.0	3.5	4.8	10.3	
W	12.0	17.5	3.6	.1	.0		33.2	9.3	34.3	33.8	29.9	36.2	
NW	11.4	16.2	2.8	.1	.0		30.4	9.0	29.5	37.2	30.4	25.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	8.3						8.3	.0	6.2	4.9	11.3	9.0	
TOT OBS	711	555	90	2	0	1358		7.3	321	264	451	322	
TOT PCT	52.4	40.9	6.6	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

FEBRUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	6.2	20.9	52.3	18.7	1.9	.0	.0	7.1	100.0	321
06609	4.9	11.7	54.9	28.5	1.5	.4	.0	8.4	100.0	264
12615	11.3	17.1	51.4	20.0	.2	.0	.0	6.8	100.0	451
18621	9.0	13.4	53.7	22.0	1.9	.0	.0	7.5	100.0	322
TOT	113	218	718	291	17	1	0	7.3		1358
PCT	8.3	16.1	52.9	21.4	1.3	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL	MEAN CLOUD COVER
N	.0	.8	.0	1.2		6.4
NE	2.3	.0	.8	.0		2.5
E	2.1	.8	.8	.0		2.4
SE	.2	.0	.8	.0		4.4
S	.0	.8	.6	.0		4.7
SW	.8	.0	2.9	1.7		6.2
W	4.6	4.8	17.7	15.4		6.0
NW	6.9	2.9	15.0	13.3		5.7
VAR	.0	.0	.0	.0		.0
CALM	.8	1.5	.8	.0		3.7
TOT OBS	23	15	51	41	130	5.6
TOT PCT	17.7	11.5	39.2	31.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.8	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
SW	.0	.0	.0	.8	.0	.2	.8	.8	.0	.0	2.9	
W	.0	.0	.8	5.4	4.8	2.1	.0	.0	.0	.0	29.4	
NW	.0	.8	.8	3.8	4.0	3.3	.0	.0	.0	.0	25.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
TOT PCT	.0	.8	1.5	10.0	10.0	6.2	.8	.8	.8	.0	69.2	130

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	6.9	8.5	8.5	8.5	8.5	8.5	8.5	8.5
= OR >1000	16.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
= OR >600	21.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2
= OR >500	21.5	30.8	30.8	30.8	30.8	30.8	30.8	30.8
= OR >150	21.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
= OR >0	21.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
TOTAL	28	41	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 130

PCT FREQ NH <5/8: 68.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.3	14.3	14.3	23.6	12.1	.1	7.9	3.6	12.9	.0	140

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

FEBRUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.2	.0	.0	.0	.4	.5	.2	.0	.0	.0	1.2
	NO PCP	.0	.0	.0	.0	.0	.3	.4	.4	.0	.2	.2	1.3
	TOT %	.0	.2	.0	.0	.0	.6	.9	.6	.0	.2	.2	2.5
5<10	PCP	.0	.0	.2	.0	.7	.3	2.5	1.0	.0	.2	.4	4.8
	NO PCP	1.4	1.4	.3	1.5	1.6	2.0	8.2	8.4	.0	1.0	26.0	26.0
	TOT %	1.4	1.4	.5	1.5	2.3	2.3	10.7	9.4	.0	1.2	30.8	30.8
10+	PCP	.1	.2	.1	.1	.0	.0	.3	1.3	.0	.0	.0	2.3
	NO PCP	2.7	2.5	3.6	1.2	1.4	4.7	21.3	24.4	.0	2.5	64.2	64.2
	TOT %	2.8	2.7	3.7	1.3	1.4	4.7	21.8	25.7	.0	2.5	66.5	66.5
TOT OBS													520
TOT PCT		4.3	4.3	4.2	2.8	3.8	7.5	39.5	35.8	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.1	.0	.0	.1	.1	.3	.1	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.1	.0	.1	.1	.3	.1	.0	.0	.0	.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3
2<5	0-3	.0	.0	.0	.0	.0	.2	.1	.1	.0	.3	.8	.8
	4-10	.1	.1	.0	.0	.0	.5	.9	.7	.0	.0	.0	2.4
	11-21	.1	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	.0	.0	.0	.7	1.4	.9	.0	.3	.3	3.7
5<10	0-3	.3	.4	.1	.4	.1	.5	.2	.7	.0	1.1	3.9	3.9
	4-10	.8	.5	.2	.4	1.2	1.1	4.8	4.3	.0	.0	.0	13.3
	11-21	.2	.0	.0	.1	.0	.1	2.2	1.1	.0	.0	.0	3.8
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
	TOT %	1.3	.9	.3	1.0	1.3	1.7	7.3	6.3	.0	1.1	21.3	21.3
10+	0-3	1.8	1.2	1.3	.6	.8	1.1	3.3	3.4	.0	7.3	20.9	20.9
	4-10	3.7	1.8	1.8	.4	.8	3.5	12.2	14.0	.0	.0	.0	38.2
	11-21	.2	.0	.2	.2	.1	.4	6.8	6.6	.0	.0	.0	14.5
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	TOT %	5.6	3.0	3.4	1.2	1.7	4.9	22.3	24.0	.0	7.3	73.7	73.7
TOT OBS													892
TOT PCT		7.2	4.2	3.8	2.2	3.2	7.5	31.8	31.3	.0	8.7	100.0	

PERIOD: (PRIMARY) 1918-1973
(OVER-ALL) 1860-1973

FEBRUARY

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	3.3	.0	10.0	13.3	10.0	.0	.0	.0	.0	36.7	63.3	30
06009	.0	.0	3.4	6.9	10.3	6.9	.0	.0	.0	.0	27.6	72.4	29
12015	.0	.0	2.9	11.4	5.7	8.6	.0	.0	.0	.0	28.6	71.4	35
18021	.0	.0	.0	11.6	9.3	.0	2.3	2.3	2.3	.0	27.9	72.1	43
TOT	0	1	2	14	13	8	1	1	1	0	41	96	137
PCT	.0	.7	1.5	10.2	9.5	5.8	.7	.7	.7	.0	29.9	70.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.0	.4	3.1	17.9	77.7	224
06009	1.2	.6	.6	2.4	24.2	70.9	165
12015	.6	.3	.0	5.3	25.1	68.7	319
18021	.5	.0	.5	2.3	25.1	71.6	215
TOT	7	2	3	33	214	664	923
PCT	.8	.2	.3	3.6	23.2	71.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.6	17.9	25.0	57.1	28
06009	.0	3.6	10.7	17.9	71.4	28
12015	.0	3.0	15.2	19.2	69.7	33
18021	.0	.0	12.2	17.1	70.7	41
TOT	0	3	18	24	88	130
PCT	.0	2.3	13.8	18.5	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.6	.3	.0	5	1.5
85/89	.0	.0	.0	.0	1.2	4.9	6.1	3.3	91	15.5
80/84	.0	.0	.0	.0	.6	17.3	43.5	12.5	243	73.9
75/79	.0	.0	.0	.0	.0	.9	4.0	4.3	30	9.1
TOTAL	0	0	0	0	8	78	177	66	329	100.0
PCT	.0	.0	.0	.0	2.4	23.7	53.8	20.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.6	.3	.6	.0	.0
85/89	.5	.6	.9	.3	.3	.7	5.0	6.5	.0	.6
80/84	2.5	2.9	1.8	2.4	3.6	5.6	23.7	28.0	.0	3.3
75/79	.2	.3	.2	.2	1.4	.5	3.0	2.8	.0	.6
TOTAL	3.3	3.8	2.9	2.8	5.3	7.4	32.1	37.9	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	91	88	82	79	75	74	82.5	321
06009	91	92	87	83	79	75	75	82.8	265
12015	90	86	85	82	78	76	74	81.7	453
18021	86	84	83	81	77	75	74	80.7	323
TOT	95	89	86	82	78	75	74	81.9	1364

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.9	24.1	44.4	30.6	85	108
06009	.0	.0	13.8	39.0	39.0	8.5	79	59
12015	.0	.0	.0	27.2	52.4	20.4	84	103
18021	.0	.0	.0	8.3	76.2	15.5	84	84
TOT	0	0	9	84	189	72	84	334

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

TABLE 17

AREA 0013 SOUTHEAST JAVA SEA
6.35 112.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NU FOG
7/8	.0	.0	.0	.0	.2	1	.0	.2
6	.0	.0	.0	.0	.5	2	.0	.5
5	.0	.0	.0	.2	.2	2	.0	.5
4	.0	.0	.0	1.5	.5	7	.0	1.7
3	.0	.0	.5	1.5	.5	10	.2	2.2
2	.0	.0	4.2	2.0	.0	25	.2	6.0
1	.0	.0	6.2	2.7	.0	36	.7	9.2
0	.0	1.0	22.6	1.5	.2	102	.2	25.1
-1	.0	1.7	10.7	1.5	.0	56	.0	13.9
-2	.2	8.2	16.9	.0	.0	102	.0	25.4
-3	.0	1.0	2.5	.0	.0	14	.0	3.5
-4	.2	2.7	3.2	.0	.0	25	.0	6.2
-5	.5	2.2	1.0	.0	.0	15	.0	3.7
-6	.0	.7	.0	.0	.0	3	.0	.7
-7/-8	.2	.2	.0	.0	.0	2	.0	.5
TOTAL	5	72	273	44	8	402	6	396
PCT	1.2	17.9	67.9	10.9	2.0	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.0	.0	.0	.0	1.8	.0	2.4	.0	.0	.0	.0	2.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0013 SOUTHEAST JAVA SEA
0.35 112.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.3	4.0	.0	.0	.0	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	.9	.0	.0	.0	.0	1.8	.3	4.3	.0	.0	.0	.0	4.6	
1-2	.9	9.8	6.1	.0	.0	.0	16.8	2.4	9.8	6.1	.0	.0	.0	18.3	
3-4	.0	4.6	12.8	.0	.0	.0	17.4	.0	6.4	16.3	.0	.0	.0	22.9	
5-6	.0	.0	4.9	.0	.0	.0	4.9	.0	1.2	1.2	.0	.0	.0	2.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	15.2	23.8	.0	.0	.0	40.9	2.7	21.6	23.8	.0	.0	.0	48.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	6.0	.0	.0	.0	.0	.0	9.6
1-2	3.6	27.7	12.0	.0	.0	.0	.0	43.4
3-4	.0	10.8	28.9	.0	.0	.0	.0	39.7
5-6	.0	1.2	6.1	.0	.0	.0	.0	7.3
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.2	45.8	47.0	.0	.0	.0	100.0	83

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.4	31.4	28.9	7.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	3
6-7	.0	1.7	9.9	9.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	0
TOTAL	12	40	47	20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	3
PCT	9.9	33.1	38.8	16.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	
				PCPN		FRZN					WD	PCPN	HAZE	BLWG	
						PCPN					PCPN	PAST HR		BLWG	
N	8.5	.0	.0	.0	.0	.0	.0	8.5	.0	1.9	7.5	.0	.0	.0	82.1
NE	1.6	.0	3.2	.0	.0	.0	.0	4.8	.0	6.4	.0	.0	.0	.0	88.8
E	1.4	2.8	.0	.0	.0	.0	.0	4.3	.0	9.2	.0	.0	.0	.0	87.9
SE	6.2	6.2	.0	.0	.0	.0	.0	12.3	3.1	3.8	.0	.0	.0	.0	83.8
S	36.4	.0	.0	.0	.0	.0	.0	36.4	.0	11.7	.0	.0	.0	.0	59.7
SW	13.3	14.5	.0	.0	.0	.0	.0	27.7	.0	2.4	1.2	.0	.0	.0	69.9
W	5.4	4.4	.0	.0	.0	.0	.0	9.8	1.2	3.5	.3	.0	.0	.0	85.3
NW	3.2	8.3	.0	.0	.0	.0	.0	11.4	2.2	3.4	1.0	.0	1.0	.0	81.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9	.0	.0	.0	.0	.0	.0	5.9	2.9	.0	.0	.0	2.9	.0	88.2
TOT PCT	6.6	5.1	.2	.0	.0	.0	.0	11.9	1.2	4.0	.8	.0	.4	.0	82.4
TOT OBS	471														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	
				PCPN		FRZN					WD	PCPN	HAZE	BLWG	
						PCPN					PCPN	PAST HR		BLWG	
00Z03	6.0	3.4	.0	.0	.0	.0	.0	9.4	4.3	.0	1.7	.0	.9	.0	83.8
06Z09	4.2	3.4	.0	.0	.0	.0	.0	7.6	.8	.0	.8	.0	.0	.0	90.7
12Z15	9.4	5.0	.0	.0	.0	.0	.0	15.4	.0	8.1	1.3	.0	.7	.0	75.8
18Z21	8.6	8.6	.8	.0	.0	.0	.0	18.0	.0	7.0	1.6	.0	.0	.0	75.0
TOT PCT	7.2	5.5	.2	.0	.0	.0	.0	12.9	1.2	4.1	1.4	.0	.4	.0	80.9
TOT OBS	512														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.1	4.2	.9	.0	.0	.0		6.7	5.3		3.1	5.0	5.7	15.4	8.7	5.1	7.4	3.9
NE	1.8	4.1	.9	.0	.0	.0		5.9	5.0		5.9	6.9	4.3	10.3	6.3	5.8	5.5	3.7
E	1.9	4.2	.7	.0	.0	.0		6.8	5.9		5.4	7.9	7.1	2.7	9.5	8.8	4.8	6.6
SE	1.6	4.7	.3	.0	.0	.0		6.7	5.7		7.9	3.5	8.2	3.1	4.4	9.3	6.2	9.7
S	.7	2.9	.3	.0	.0	.0		4.0	6.6		5.6	4.2	1.1	.3	3.8	4.4	4.8	6.1
SW	1.9	5.5	.9	.0	.0	.0		8.3	6.4		16.0	6.2	6.8	2.1	4.5	9.6	6.9	12.1
W	4.2	17.5	4.8	.5	.0	.0		28.1	8.0		30.7	31.7	34.8	25.7	24.5	27.2	23.3	30.1
NW	3.2	13.3	4.4	.2	.0	.0		21.2	7.7		18.5	25.7	17.9	23.6	21.6	16.6	23.1	16.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.1							12.2	.0		6.8	8.9	14.1	6.8	16.7	13.2	18.1	12.1
TOT OBS	359	687	199	10	0	0	1215		6.1		181	101	92	146	222	182	103	206
TOT PCT	29.5	56.5	13.1	.8	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	5.2	1.4	.2	.0	.0			6.7	5.3		3.8	11.7	7.1
NE	4.6	1.4	.0	.0	.0			5.9	5.0		6.3	8.0	6.1
E	4.5	2.3	.0	.0	.0			6.8	5.9		6.4	4.4	9.2
SE	4.6	2.1	.0	.0	.0			6.7	5.7		6.2	3.0	8.6
S	2.2	1.8	.0	.0	.0			4.0	6.6		5.1	.6	4.1
SW	5.3	2.7	.3	.0	.0			8.3	6.4		12.2	3.9	8.8
W	13.4	12.7	1.9	.2	.0			28.1	8.0		31.1	29.2	23.7
NW	11.0	9.1	1.1	.0	.0			21.2	7.7		21.3	27.5	19.4
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	12.2							12.2	.0		7.6	9.7	13.1
TOT OBS	765	406	42	2	0	1215			6.1		262	238	404
TOT PCT	63.0	33.4	3.5	.2	.0			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0013 SOUTHEAST JAVA SEA
6.28 112.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	7.6	19.1	57.6	14.9	.8	.0	.0	.0	6.5	100.0	262
0600	9.7	14.7	58.0	16.8	.8	.0	.0	.0	6.7	100.0	238
1200	15.1	20.3	52.2	11.6	.7	.0	.0	.0	5.6	100.0	404
1800	14.1	14.5	59.8	10.6	1.0	.0	.0	.0	6.0	100.0	311
TOT	148	212	686	159	10	0	0	0	6.1		1213
PCT	12.2	17.4	56.5	13.1	.8	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN CLOUD COVER
N	.5	1.1	3.1	1.1		5.9
NE	.2	3.1	3.5	.0		4.7
E	1.8	.7	5.7	.0		4.7
SE	2.6	1.5	1.1	.0		3.1
S	.0	.0	2.0	1.5		7.0
SW	.4	.0	5.3	.4		5.9
W	2.0	6.9	15.3	7.7		5.7
NW	1.3	2.7	10.8	3.3		5.8
VAR	.0	.0	.0	.0		.0
CALM	4.4	5.8	4.4	.0		3.5
TOT OBS	18	30	70	19	137	5.2
TOT PCT	13.1	21.9	51.1	13.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	259	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.7	1.1	.0	.0	.0	.0	.7	3.3	
NE	.0	.0	.0	.0	1.6	.7	.0	.0	.0	.0	4.4	
E	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	7.7	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	
S	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	1.5	.7	.4	.0	.0	.0	.0	3.5	
W	.0	.0	.0	2.9	3.3	3.1	1.5	.0	.0	.7	20.4	
NW	.0	.0	.0	.0	2.2	.2	1.5	.0	.0	.0	14.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.7	1.5	.7	.0	.0	.0	.0	11.7	
TOT OBS	0	9	16	7	4	0	0	0	0	1	99	137
TOT PCT	.0	.0	.0	6.6	11.7	5.1	2.9	.0	.0	1.5	72.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT ('NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>2000	8.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4
>1000	20.1	20.9	20.9	20.9	20.9	20.9	20.9	20.9
>600	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
>300	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
>150	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
>0	25.9	26.6	27.3	27.3	27.3	27.3	27.3	27.3
TOTAL	36	37	38	38	38	38	38	38

TOTAL NUMBER OF OBS: 139

PCT FREQ NH <5/8: 72.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	4.3	11.2	24.2	19.3	15.5	11.8	8.8	4.3	2.5	161

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.6	
2<5	PCP	.0	.0	.0	.0	.2	.2	.3	.	.0	.0	1.1	
	NO PCP	.3	.0	.0	.0	.0	.0	.5	.	.0	.0	1.1	
	TOT %	.3	.0	.0	.0	.2	.2	.8	.6	.0	.0	2.1	
5<10	PCP	.3	.3	.3	.9	1.1	1.9	2.1	2.0	.0	.4	8.9	
	NO PCP	1.9	1.9	2.2	1.9	.9	2.2	9.4	7.0	.0	1.7	29.6	
	TOT %	2.2	2.2	2.6	2.8	1.9	3.7	12.1	9.0	.0	2.1	38.5	
10+	PCP	.2	.0	.0	.0	.4	.4	.5	.1	.0	.0	1.3	
	NO PCP	3.0	4.4	4.9	4.1	1.8	3.9	17.8	11.9	.0	5.1	57.0	
	TOT %	3.2	4.4	4.9	4.1	1.8	4.4	18.4	12.0	.0	5.1	58.3	
TOT OBS													470
TOT PCT		5.6	6.6	7.5	6.9	4.1	8.6	31.5	21.9	.0	7.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.3	
	4-10	.0	.3	.0	.0	.2	.1	.1	.3	.4	.0	1.5	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.2	.1	.2	.6	.4	.0	.1	1.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.3	.3	.0	.0	.6	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.8	
2<5	0-3	.1	.0	.0	.0	.0	.0	.3	.2	.0	.0	.5	
	4-10	.2	.0	.0	.0	.1	.1	.6	.4	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.1	.3	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.1	.2	1.1	.7	.0	.0	2.4	
5<10	0-3	.3	.6	.3	.5	.1	.5	1.3	.8	.0	2.0	6.4	
	4-10	1.1	.9	.7	.9	1.0	1.6	5.2	3.4	.0	.0	14.9	
	11-21	.1	.0	.5	.3	.3	.3	1.1	1.2	.0	.0	3.8	
	22+	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
	TOT %	1.5	1.5	1.5	1.8	1.4	2.5	7.7	5.6	.0	2.0	25.4	
10+	0-3	1.3	1.2	1.0	.6	.3	1.2	2.5	2.4	.0	9.5	20.0	
	4-10	3.4	3.0	3.4	3.8	1.3	3.8	12.8	10.2	.0	.0	41.9	
	11-21	.2	.0	.1	.1	.0	.2	4.1	2.9	.0	.0	7.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	4.9	4.2	4.5	4.5	1.7	5.1	19.3	15.6	.0	9.6	69.5	
TOT OBS													800
TOT PCT		6.7	6.0	6.0	6.4	3.3	8.1	29.1	22.5	.0	11.6	100.0	

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1960-1973

MARCH

AREA 0013 SOUTHEAST JAVA SEA
6.23 112.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 5499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.3	16.7	.0	2.6	.0	.0	.0	27.8	72.2	36
06009	.0	.0	.0	2.9	8.6	5.7	2.9	.0	.0	.0	20.0	80.0	33
12015	.0	.0	.0	4.3	8.5	2.1	2.1	.0	.0	2.1	19.1	80.9	47
18021	.0	.0	.0	7.5	7.5	10.0	2.5	.0	.0	2.5	30.0	70.0	40
TOT	0	0	0	9	16	7	4	0	0	2	38	120	158
PCT	.0	.0	.0	5.7	10.1	4.4	2.5	.0	.0	1.3	24.1	75.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	1.1	.0	.6	.6	27.8	70.0	180
06009	1.2	.0	.4	2.4	28.5	67.3	165
12015	2.5	.4	1.1	3.9	24.2	68.0	281
18021	1.9	.0	.5	1.9	31.2	64.7	215
TOT	15	1	6	20	232	567	861
PCT	1.8	.1	.7	2.4	27.6	67.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (%M) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	9.4	21.9	68.8	32
06009	.0	.0	3.6	21.4	75.0	28
12015	.0	.0	6.5	15.2	78.3	46
18021	.0	.0	9.1	27.3	63.6	33
TOT	0	0	10	29	100	139
PCT	.0	.0	7.2	20.9	71.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.0	.0	.0	2	.7
85/89	.0	.0	.0	.0	1.1	7.4	1.1	1.1	30	10.6
80/84	.0	.0	.0	.7	.4	25.4	4.9	10.9	225	79.2
75/79	.0	.0	.0	.0	.7	1.8	7.0	.0	27	9.5
TOTAL	0	0	0	2	6	93	127	54	284	100.0
PCT	.0	.0	.0	.7	2.1	33.5	44.7	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
85/89	.7	.9	.9	.9	.4	.1	3.2	2.6	.0	1.1
80/84	5.2	3.8	6.1	4.2	3.3	6.6	23.1	19.3	.0	7.7
75/79	.3	.0	.2	1.1	.5	2.1	2.9	2.1	.0	.4
TOTAL	6.2	4.7	7.5	6.5	4.1	8.8	29.1	23.9	.0	9.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	88	86	82	79	76	72	82.1	284
06009	91	89	88	83	76	77	76	83.1	237
12015	89	87	85	82	79	77	73	81.9	408
18021	87	86	84	81	78	75	73	81.1	315
TOT	91	88	86	82	78	76	72	81.9	1224

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	.0	31.2	46.8	20.8	83	77		
06009	.0	1.4	10.1	46.4	30.4	11.6	79	69		
12015	.0	.0	.0	34.1	47.1	18.8	83	85		
18021	.0	.0	.0	21.8	50.6	27.6	85	87		
TOT	0	2	7	104	141	64	83	318		

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.3
7/8	.0	.0	.0	.0	.3	.0	1	.3
6	.0	.0	.0	.0	.3	.3	2	.5
5	.0	.0	.0	.0	.5	.0	2	.5
4	.0	.0	.0	.0	1.8	.5	12	3.1
3	.0	.0	.0	.3	2.0	.0	9	2.3
2	.0	.0	.0	5.3	2.8	.3	33	8.4
1	.0	.0	.8	6.6	1.0	.0	33	8.1
0	.0	.0	1.0	18.6	1.0	.0	61	19.8
-1	.0	.0	2.0	12.7	.8	.0	61	15.3
-2	.0	.0	4.1	17.8	.3	.0	87	22.1
-3	.0	.0	2.5	3.8	.0	.0	25	6.1
-4	.0	.0	4.8	3.1	.3	.0	32	7.9
-5	.0	.3	1.0	.0	.0	.0	6	1.5
-6	.0	.3	.3	.0	.0	.0	2	.5
-7/-8	.0	.3	.8	.0	.0	.0	5	1.3
-11/-13	.3	.0	.0	.0	.0	.0	1	.3
TOTAL	1	5	68	271	43	5	393	386
PCT	.3	1.3	17.3	69.0	10.9	1.3	100.0	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	1.7	.0	.0	.0	.0	.0	1.2
1-7	.0	2.8	1.2	.0	.0	.0	4.0	.3	6.5	.0	.0	.0	.0	6.8
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	2.2	.0	.0	.0	6.2	1.9	6.5	.0	.0	.0	.0	8.0

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.5	.0	.0	.0	.0	1.5
1-2	.9	6.6	.0	.0	.0	.0	5.6	.0	1.5	1.2	.0	.0	.0	2.8
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.6	.0	.0	.0	.0	6.5	.0	3.1	1.2	.0	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	1.2	.0	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	3.4	.0	.0	.0	.0	3.4	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	1.2	.0	.0	.0	.0	2.5	.0	4.9	.3	.0	.0	.0	5.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	4.3	.0	.0	.0	.0	4.3	1.2	1.5	1.2	.0	.0	.0	4.0	
1-2	.0	12.3	1.2	.0	.0	.0	14.5	.0	5.3	1.2	.0	.0	.0	9.9	
3-4	.0	4.6	8.6	.0	.0	.0	13.3	.0	.3	.9	.0	.0	.0	1.2	
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.5	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	21.3	11.1	.0	.0	.0	33.3	1.5	10.2	4.9	.0	.0	.0	16.7	82.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	22.0	9.8	1.2	.0	.0	.0	32.9	82
1-2	2.4	40.2	4.9	.0	.0	.0	47.6	
3-4	.0	4.9	9.8	.0	.0	.0	14.6	
5-6	.0	1.2	3.7	.0	.0	.0	4.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.4	56.1	19.5	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.2	38.5	13.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	2
6-7	.8	1.6	6.6	4.9	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
8-9	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	0
TOTAL	33	50	26	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	122	2
PCT	27.0	41.0	21.3	9.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

APRIL

APEA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
N	4.5	4.5	.0	.0	.0	.0	.0	9.1	3.4	.0	.0	.0	.0	.0	87.5
NE	4.5	.0	.0	.0	.0	.0	.0	4.5	.7	.0	3.0	.0	.0	.0	91.8
E	4.4	1.9	.4	.0	.0	.0	.0	6.7	.6	6.1	3.0	.0	.0	.0	84.4
SE	3.0	1.5	1.5	.0	.0	.0	.0	6.0	.2	5.2	3.0	.0	.0	.0	86.6
S	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	1.5	.0	.0	.0	.0	93.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	4.4	.0	.0	.0	.0	.0	.0	4.4	.0	4.4	6.7	.0	.0	.0	84.4
NW	5.1	10.1	.0	.0	.0	.0	.0	15.2	.0	5.1	2.5	.0	.0	.0	77.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	9.1	.0	.0	.0	.0	90.9
TOT PCT	3.8	1.7	.5	.0	.0	.0	.0	6.0	.5	4.5	2.4	.0	.0	.0	87.4
TOT OBS:	420														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRA / BLWG DUST BLWG SNOW	NO SIG WFA
00003	2.9	1.9	.0	.0	.0	.0	.0	4.9	1.0	1.0	4.9	.0	.0	.0	88.3
06009	1.0	1.0	1.0	.0	.0	.0	.0	3.1	1.0	.0	2.1	.0	.0	.0	93.8
12015	6.3	.0	.8	.0	.0	.0	.0	7.1	.0	10.3	1.6	.0	.0	.0	82.5
18021	4.3	3.4	.9	.0	.0	.0	.0	8.5	.0	6.8	1.7	.0	.0	.0	84.6
TOT PCT 442	3.8	1.6	.7	.0	.0	.0	.0	6.1	.5	5.0	2.5	.0	.0	.0	86.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	2.5	.3	.0	.0	.0		4.0	5.7	3.3	6.4	5.6	8.2	4.8	.8	3.8	1.3	
NE	3.2	5.9	.5	.0	.0	.0		9.7	5.3	5.5	8.6	9.1	16.5	15.0	6.4	8.4	5.3	
E	4.0	20.9	4.1	.0	.1	.0		30.1	7.6	28.8	30.0	34.4	32.4	31.8	30.4	33.2	23.2	
SE	3.1	16.0	3.0	.0	.0	.0		22.1	7.2	29.1	19.1	23.8	16.2	19.3	23.5	19.2	26.5	
S	2.2	4.3	.6	.0	.0	.0		7.2	5.7	8.7	7.3	1.9	2.6	4.0	10.8	5.5	13.4	
SW	1.4	2.5	.5	.0	.0	.0		4.3	5.6	3.8	4.5	4.4	3.2	1.7	3.6	7.1	7.8	
W	2.0	3.6	.7	.0	.0	.0		6.3	5.7	5.1	6.8	4.4	5.6	6.3	7.5	7.1	6.8	
NW	1.8	3.0	.7	.0	.0	.0		5.5	6.0	3.6	10.0	4.1	9.4	6.0	3.3	5.1	3.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.9							10.9	.0	12.0	7.3	12.5	5.9	11.3	13.8	10.6	12.6	
TOT OBS	372	734	142	1	1	0	1250		5.9	158	110	80	170	240	181	113	198	
TOT PCT	29.8	58.7	11.4	.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.0	.8	.3	.0	.0		4.0	5.7	4.6	7.4	3.1	2.2
NE	7.0	2.6	.1	.0	.0		9.7	5.3	6.8	14.1	11.3	6.4
E	13.7	15.7	.7	.1	.0		30.1	7.6	29.3	33.0	31.2	26.8
SE	10.8	10.9	.4	.0	.0		22.1	7.2	25.0	18.6	21.1	23.9
S	5.0	2.1	.0	.0	.0		7.2	5.7	8.1	2.4	6.9	10.5
SW	3.1	1.2	.0	.0	.0		4.3	5.6	4.1	3.6	2.5	7.6
W	4.6	1.4	.2	.0	.0		6.3	5.7	5.8	5.2	6.8	6.9
NW	3.7	1.6	.2	.0	.0		5.5	6.0	6.3	7.7	4.9	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.9						10.9	.0	10.1	8.0	12.4	11.9
TOT OBS	772	453	24	1	0	1250		5.9	268	250	421	311
TOT PCT	61.8	36.2	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

APRIL

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOURLY	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	10.1	22.4	48.9	18.3	.4	.0	.0	5.3	100.0	268
06009	8.0	17.2	66.4	8.4	.0	.0	.0	6.0	100.0	250
12015	12.4	19.2	60.6	7.6	.0	.2	.0	5.7	100.0	421
18021	11.9	16.7	58.5	12.9	.0	.0	.0	6.0	100.0	311
TOT	136	236	734	142	1	1	0	5.9		1250
PCT	10.9	18.9	58.7	11.4	.1	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN CLOUD COVER
N	.3	2.1	1.8	1.8		5.2
NE	1.7	2.0	2.4	1.8		4.5
E	13.4	10.2	12.3	1.7		3.6
SE	5.9	7.6	7.2	3.8		4.4
S	1.2	1.8	1.1	.6		3.9
SW	.6	.3	.0	1.8		6.1
W	.6	.0	2.4	.0		5.4
NW	.0	1.5	1.4	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	4.3	3.0	1.2		4.2
TOT OBS	42	49	52	21	164	4.2
TOT PCT	25.6	29.9	31.7	12.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.6	1.1	.0	.0	.0	.0	.0	4.4	
NE	.0	.0	.6	.6	.2	.0	.0	.0	.0	.0	6.6	
E	.0	.0	.0	.6	4.7	.0	.6	.0	.0	.0	31.7	
SE	.0	.0	.0	2.4	1.4	.0	.0	.0	.0	.0	20.7	
S	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	3.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
W	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.4	
NW	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	
CALM	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	9.1	
TOT OBS	0	0	1	9	14	1	2	0	0	0	137	164
TOT PCT	.0	.0	.6	5.5	8.5	.6	1.2	.0	.0	.0	83.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >1000	10.8	11.4	11.4	11.4	11.4	11.4	11.4	11.4
= OR >600	13.2	15.6	16.8	16.8	16.8	16.8	16.8	16.8
= OR >300	13.2	16.2	17.4	17.4	17.4	17.4	17.4	17.4
= OR >150	13.2	16.2	17.4	17.4	17.4	17.4	17.4	17.4
= OR >0	13.2	16.2	17.4	17.4	17.4	17.4	17.4	17.4
TOTAL	22	27	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 167

PCT FREQ NH <5/8: 82.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.7	16.5	25.6	15.3	18.8	6.8	3.4	4.0	4.0	.0	176

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

APRIL

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.2	.1	.4	.2	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.3	1.4	.0	.0	.0	.0	.0	.0	1.7	
	TOT %	.2	.1	.7	1.6	.0	.0	.0	.0	.0	.0	2.6	
5<10	PCP	.0	.2	1.7	1.1	.4	.0	.2	.7	.0	.2	4.5	
	NO PCP	2.5	2.4	6.5	5.6	3.2	2.5	1.8	2.1	.0	2.4	29.3	
	TOT %	2.5	2.7	8.5	6.7	3.5	2.5	2.0	2.9	.0	2.6	33.8	
10+	PCP	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	2.3	5.2	22.9	15.6	4.3	2.4	3.2	1.7	.0	5.2	62.9	
	TOT %	2.5	5.2	23.0	15.7	4.3	2.4	3.2	1.7	.0	5.2	63.3	
TOT OBS													
TOT PCT													
420													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.1	.1	.1	.1	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.1	.2	.0	.0	.1	.0	.0	.0	.5	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.2	.3	.1	.0	.1	.0	.0	.1	.9	
2<5	0-3	.2	.0	.1	.5	.0	.1	.1	.0	.0	.2	1.2	
	4-10	.1	.1	.6	.9	.1	.0	.1	.0	.0	.0	2.0	
	11-21	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.1	.8	1.4	.1	.1	.3	.0	.0	.2	3.4	
5<10	0-3	.3	.2	.5	.4	.4	.2	.2	.6	.0	2.1	4.9	
	4-10	.9	1.1	3.2	2.6	1.3	1.0	.6	.7	.0	.0	11.4	
	11-21	.1	.1	.9	.6	.1	.1	.2	.4	.0	.0	2.6	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	1.3	1.5	4.7	3.6	1.8	1.3	1.1	1.6	.0	2.1	19.0	
10+	0-3	.8	2.7	3.3	1.9	2.1	.9	2.3	1.4	.0	8.7	24.2	
	4-10	1.4	4.3	16.9	11.5	2.8	1.9	3.0	2.9	.0	.0	44.8	
	11-21	.2	.2	3.6	2.1	.4	.3	.1	.2	.0	.0	7.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.4	7.2	23.8	15.5	5.3	3.1	5.4	4.6	.0	8.7	76.1	
TOT OBS													
TOT PCT													
815													

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1883-1972AREA 0013 SOUTHEAST JAVA SEA
0.35 113.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 7499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.2	4.1	2.0	2.0	.0	.0	.0	16.3	83.7	49
06009	.0	.0	.0	4.7	9.3	.0	2.3	.0	.0	.0	16.3	83.7	43
12015	.0	.0	2.9	.0	5.7	.0	2.9	.0	.0	.0	11.4	88.6	35
18021	.0	.0	.0	6.5	13.0	.0	2.2	.0	.0	.0	21.7	78.3	46
TOT	0	0	1	9	14	1	4	0	0	0	29	144	173
PCT	.0	.0	.6	5.2	8.1	.6	2.3	.0	.0	.0	16.8	83.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.2	.0	.0	1.8	21.1	75.9	166
06009	1.2	.0	1.2	4.2	15.2	78.2	165
12015	.3	.0	1.4	4.4	19.9	74.0	296
18021	.0	.0	1.4	2.4	21.7	74.5	212
TOT	5	0	9	28	165	632	839
PCT	.6	.0	1.1	3.3	19.7	75.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	8.5	8.5	83.0	47
06009	.0	.0	4.8	11.9	83.3	42
12015	.0	2.9	2.9	8.8	88.2	34
18021	.0	.0	6.8	15.9	77.3	44
TOT	0	1	10	19	138	167
PCT	.0	.6	6.0	11.4	82.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.4	.0	.0	2	.8
85/89	.0	.0	.0	.0	1.1	13.0	4.6	.4	50	19.2
80/84	.0	.0	.0	.0	.4	26.8	36.4	13.0	200	76.6
75/79	.0	.0	.0	.0	.0	.8	2.3	.4	9	3.4
TOTAL	0	0	0	0	5	107	113	36	261	100.0
PCT	.0	.0	.0	.0	1.9	41.0	43.3	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
85	.0	3.0	7.5	3.3	.7	.0	1.9	.8	.0	1.5
80	4.1	5.0	25.2	21.5	7.2	3.4	3.1	3.0	.0	4.2
75	.3	.1	.4	.8	.0	.6	.2	1.1	.0	.0
TOT	5.0	8.0	33.4	25.9	7.9	4.0	5.2	4.9	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	88	87	83	79	77	75	83.2	42
06009	93	91	89	84	79	79	77	84.2	1
12015	92	87	85	83	80	79	73	82.8	
18021	89	86	84	82	79	77	75	81.8	
TOT	93	89	86	83	79	77	73	82.9	1237

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	45.5	45.5	9.1	81	66		
06009	.0	.0	9.3	53.7	27.8	9.3	78	54		
12015	.0	.0	4.2	35.2	47.9	12.7	82	71		
18021	.0	.0	1.1	28.1	49.4	21.3	84	69		
TOT	0	0	9	109	123	39	81	280		

APRIL

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1863-1972

TABLE 17

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.06PCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	H FOG	WD FOG
7/8	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.0	.3	1	.0	.3
4	.0	.0	.6	1.7	.0	8	.0	2.2
3	.0	.0	.6	.6	.6	6	.3	1.4
2	.0	.0	2.8	3.9	.3	25	.0	7.0
1	.0	.0	5.9	3.9	.0	35	.3	9.5
0	.0	1.4	17.0	3.4	.3	79	.6	21.5
-1	.0	.8	11.2	2.0	.0	50	1.1	12.9
-2	.0	1.1	18.4	2.0	.0	77	.3	21.2
-3	.0	.6	5.6	.3	.0	23	.3	6.1
-4	.3	2.8	4.5	.0	.0	27	.0	7.5
-5	.0	2.5	2.8	.0	.0	19	.0	5.3
-6	.0	.8	.6	.0	.0	5	.0	1.4
-7/-8	.0	.6	.0	.0	.0	2	.0	.6
TOTAL	1	38	250	64	5	358	10	348
PCT	.3	10.6	69.8	17.9	1.4	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.0	2.4	.7	.0	.0	.0	2.4
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.0	.0	.0	.0	.8	.0	7.3	.0	.0	.0	.0	7.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.0	.0	.0	.0	.0	3.0	.0	1.3	.0	.0	.0	.0	1.3
1-2	1.1	14.8	4.0	.0	.0	.0	19.9	.0	23.9	.9	.0	.0	.0	24.2
3-4	.0	7.5	8.1	.0	.0	.0	15.6	.0	3.1	2.7	.0	.0	.0	7.8
5-6	1.1	1.1	1.1	.0	.0	.0	3.2	.0	2.2	2.2	.0	.0	.0	4.3
7	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	26.3	13.2	.0	.0	.0	41.7	.0	32.5	6.2	.0	.0	.0	38.7

PERIOD: (OVER-ALL) 1963-1972

APRIL

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.0	.0	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	.0	1.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.1	93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.5	7.5	.0	.0	.0	.0	15.1	025
1-2	1.1	45.2	4.3	.0	.0	.0	50.5	
3-4	.0	14.0	11.8	.0	.0	.0	25.8	
5-6	1.1	3.2	3.2	.0	.0	.0	7.5	
7	.0	.0	1.1	.0	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	69.9	26.4	.0	.0	.0	100.0	93

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.7	29.0	21.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97
6-7	.0	1.3	5.2	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	23.9	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
TOTAL	49	34	42	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198
PCT	31.6	34.8	27.1	5.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

MAY

TABLE 1

AREA 0013 SOUTHEAST JAVA SEA
6.25 113.0E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA															
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA																
N	.0	.0	.0	.0	.0	.0	.0	.0	8.2	8.2	.0	.0	.0	.0	83.7																
NE	.0	4.7	1.2	.0	.0	.0	.0	5.9	.0	2.4	2.4	.0	1.2	.0	88.2																
E	1.0	2.7	.2	.0	.0	.0	.0	4.0	.9	5.1	.5	.0	.2	.0	89.4																
SE	2.0	2.0	1.5	.0	.0	.0	.0	3.5	.1	2.4	1.0	.0	.0	.0	91.0																
S	.0	1.5	.0	.0	.0	.0	.0	1.5	.0	6.1	.0	.0	.0	.0	92.4																
SW	.0	8.7	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	91.3																
W	.0	.0	7.4	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	77.8																
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0																
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																
CALM	.0	.0	8.3	.0	.0	.0	.0	8.3	.0	8.3	8.3	.0	.0	.0	75.0																
TOT PCT	1.1	2.4	1.1	.0	.0	.0	.0	4.6	.6	3.7	1.3	.0	.2	.0	89.6																
TOT OBS:	539																														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE																OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA						
00003	2.2	2.2	.7	.0	.0	.0	.0	5.1	.0	.7	.7	.0	.7	.0	92.8						
06009	1.5	4.5	.0	.0	.0	.0	.0	6.0	1.5	.0	1.5	.0	.0	.0	91.0						
12015	1.2	.0	1.7	.0	.0	.0	.0	2.9	.6	7.3	2.3	.0	.0	.0	86.7						
18021	2.9	5.8	1.4	.0	.0	.0	.0	10.1	.0	7.2	2.2	.0	.0	.0	81.2						
TOT PCT	1.9	2.9	1.0	.0	.0	.0	.0	3.8	.5	4.1	1.7	.0	.2	.0	87.8						
TOT OBS:	583																				

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	1.2	.2	.1	.0	.0		2.1	6.6	1.8	4.5	2.0	3.0	1.2	.8	4.0	1.6
NE	1.7	6.3	1.0	.0	.0	.0		9.0	6.5	6.3	11.7	6.5	20.2	11.9	6.8	7.3	2.1
E	3.2	23.7	8.2	.0	.0	.0		35.2	8.3	30.1	30.8	32.1	39.4	41.7	36.1	39.9	29.9
SE	2.9	20.9	8.1	.1	.0	.0		31.9	8.3	39.2	32.1	34.8	23.8	28.4	33.1	34.4	31.5
S	2.0	5.9	.7	.1	.0	.0		8.8	6.5	11.7	7.1	10.0	3.9	5.9	9.1	2.8	16.1
SW	1.1	2.5	.9	.0	.0	.0		3.9	6.2	4.4	2.4	4.1	.6	2.6	4.0	2.4	3.3
W	.8	1.9	.3	.0	.0	.0		2.9	5.5	3.1	4.0	2.0	2.1	2.0	3.0	4.2	3.3
NW	.1	1.7	.3	.0	.0	.0		2.1	6.6	1.8	3.2	2.0	3.9	2.2	1.5	1.2	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	228	880	263	3	0	0	1374	4.1	.0	1.6	4.0	6.5	3.0	4.1	3.6	3.8	5.1
TOT PCT	16.6	64.0	19.1	.2	.0	.0		100.0	7.4	193	126	123	168	246	198	106	214
										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00 03	06 09	12 15	18 21
N	1.3	.7	.1	.0	.0	2.1	6.6	3.0	2.6	1.0	2.4	
NE	5.3	3.7	.1	.0	.0	9.0	6.5	8.3	14.4	9.6	3.8	
E	12.8	21.7	.7	.0	.0	35.2	8.3	30.3	36.4	39.2	33.2	
SE	12.5	18.5	.9	.0	.0	31.9	8.3	36.4	28.4	30.5	32.5	
S	5.2	3.2	.4	.0	.0	8.8	6.5	9.9	6.4	7.3	11.7	
SW	2.4	1.4	.1	.0	.0	3.9	6.2	3.6	2.1	3.3	6.9	
W	2.1	.7	.0	.0	.0	2.9	5.5	3.4	2.1	2.5	3.6	
NW	1.4	.7	.0	.0	.0	2.1	6.6	2.4	3.1	1.9	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1					4.1	.0	.0	.0	.0	.0	
TOT OBS	847	693	32	0	0	1374	7.4	319	291	444	320	
TOT PCT	47.1	50.6	2.3	.0	.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

MAY

AREA 0013 SOUTHEAST JAVA SEA
6.25 113.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.5	17.2	58.9	20.7	.6	.0	.0	7.4	100.0	319	
06009	4.5	8.6	66.0	20.6	.3	.0	.0	7.5	100.0	291	
12015	4.7	11.9	66.4	16.9	.0	.0	.0	7.3	100.0	444	
18021	4.7	11.9	64.1	19.4	.0	.0	.0	7.5	100.0	320	
TOT	57	171	880	263	3	0	0	7.4		1374	
PCT	4.1	12.4	64.0	19.1	.2	.0	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.7	.0	1.1	.7		5.1
NE	.8	1.5	1.1	1.3		5.4
E	16.0	15.2	12.3	3.9		3.9
SE	9.5	12.1	12.3	5.2		4.3
S	.5	.0	.7	.7		5.6
SW	.0	.0	.0	.0		.0
W	.0	.0	.7	.7		6.5
NW	.0	.0	.7	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	2.6	.0		7.0
TOT OBS	42	44	48	19	193	4.3
TOT PCT	27.5	28.8	31.4	12.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	999	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.5	.0	.7	.0	.0	.0	1.3	
NE	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	3.1	
E	.0	.0	.0	2.5	7.8	2.5	.0	.7	.0	.0	34.0	
SE	.0	.7	5.2	3.5	.2	.0	.0	.0	.0	.0	29.1	
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	42	44	48	19	193	4.3					109	153
TOT PCT	27.5	28.8	31.4	12.4	100.0						71.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH,

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>500D	>0
>6500	.6	.6	.6	.6	.6	.6	.6	.6
>5000	.6	.6	.6	.6	.6	.6	.6	.6
>3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>2000	4.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
>1000	8.2	15.7	18.2	18.2	18.2	18.2	18.2	18.2
>600	11.3	23.9	26.4	27.0	27.0	27.0	27.0	27.7
>300	11.3	24.5	27.0	27.7	27.7	27.7	27.7	28.3
>150	11.3	24.5	27.0	27.7	27.7	27.7	27.7	28.3
>0	11.3	24.5	27.0	28.3	28.3	28.3	28.3	28.9
TOTAL	18	39	43	45	45	45	45	46

TOTAL NUMBER OF OBS: 159

PCT FREQ NH <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.7	14.2	20.7	17.8	13.6	5.3	10.7	5.3	7.1	.6	169

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1860-1972

MAY

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0F

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	
1<2	PCP	.0	.0	.1	.5	.0	.0	.2	.0	.0	.2	.9	
	NO PCP	.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.1	.2	.5	.5	.0	.0	.2	.0	.0	.2	1.7	
2<5	PCP	.0	.0	.3	.6	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.4	.9	1.2	.4	.0	.0	.0	.0	.0	2.8	
	TOT %	.0	.4	1.2	1.8	.4	.0	.0	.0	.0	.0	3.7	
5<10	PCP	.0	.5	.3	.6	.1	.2	.0	.0	.0	.0	1.7	
	NO PCP	.8	2.6	15.3	16.5	2.2	.8	1.6	1.4	.0	.9	42.1	
	TOT %	.8	3.0	15.6	17.2	2.3	1.0	1.6	1.4	.0	.9	43.8	
10+	PCP	.0	.0	.8	.1	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	1.3	4.3	19.5	17.2	3.4	.1	.7	.7	.0	.9	49.2	
	TOT %	1.3	4.3	20.3	17.3	3.4	1.1	.7	.7	.0	.9	50.1	
TOT OBS													539
TOT PCT													
		2.3	7.9	37.5	37.3	6.1	2.1	2.5	2.1	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.0	.2	.2	.3	.1	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.2	.4	.1	.0	.1	.0	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.3	.3	.0	.0	.2	.0	.0	.0	1.1	
	11-21	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.5	.5	.0	.0	.2	.0	.0	.1	1.6	
2<5	0-3	.0	.2	.2	.1	.0	.0	.0	.0	.0	.1	.6	
	4-10	.0	.2	.7	1.1	.3	.0	.0	.0	.0	.0	2.4	
	11-21	.0	.1	.0	.5	.0	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.6	.9	1.6	.3	.0	.0	.0	.0	.1	3.5	
5<10	0-3	.1	.4	.4	1.0	.0	.0	.3	.1	.0	.7	3.0	
	4-10	.4	1.3	5.7	6.3	1.4	.6	.8	.7	.0	.0	17.0	
	11-21	.1	.3	3.8	3.6	.1	.2	.1	.2	.0	.0	8.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	1.9	9.9	10.9	1.4	.7	1.1	.9	.0	.7	28.2	
10+	0-3	.5	1.4	2.3	1.9	1.0	.4	.2	.1	.0	1.8	9.4	
	4-10	.8	3.6	18.1	14.2	3.0	1.6	.7	.7	.0	.0	42.6	
	11-21	.1	.7	5.9	5.9	.5	.0	.1	.1	.0	.0	13.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	5.7	26.3	22.0	4.5	2.0	.9	.9	.0	1.8	65.3	
TOT OBS													880
TOT PCT													
		2.1	8.6	37.7	35.5	6.3	2.7	2.4	1.8	.0	2.8	100.0	

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1880-1972

MAY

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.0	24.0	.0	.0	.0	.0	.0	30.0	70.0	50
06009	.0	.0	.0	12.5	8.9	7.1	1.8	.0	1.8	.0	32.1	67.9	56
12015	.0	.0	.0	6.9	6.9	.0	.0	.0	.0	.0	13.8	86.2	29
18021	3.2	.0	3.2	9.7	6.5	6.5	.0	.0	.0	.0	29.0	71.0	31
TOT	1	0	1	15	21	6	1	0	1	0	46	120	166
PCT	.6	.0	.6	9.0	12.7	3.6	.6	.0	.6	.0	27.7	72.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.0	.5	1.0	2.1	33.2	62.2	193
06009	1.6	.5	1.6	3.8	24.6	67.8	183
12015	.6	.3	1.8	4.9	28.6	63.7	325
18021	.9	.4	1.3	1.8	32.7	62.8	223
TOT	7	4	14	31	275	591	924
PCT	1.0	.4	1.5	3.4	29.8	64.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	10.2	22.4	67.3	49
06009	1.8	1.8	16.1	16.1	67.9	56
12015	.0	.0	8.0	8.0	84.0	25
18021	3.4	6.9	20.7	10.3	69.0	29
TOT	2	3	22	25	112	159
PCT	1.3	1.9	13.8	19.7	70.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.5	.0	.3	.0	6	1.8
85/89	.0	.0	.0	.3	2.6	9.1	4.1	1.2	59	17.4
80/84	.0	.0	.0	.0	.9	19.4	44.7	12.4	283	77.4
75/79	.0	.0	.0	.0	.3	.0	.6	2.6	12	3.5
TOTAL	0	0	0	1	18	97	169	55	340	100.0
PCT	.0	.0	.0	.3	5.3	28.5	49.7	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.4	.7	.1	.3	.0	.0	.0	.0	.3
85/89	.2	1.0	8.6	6.0	.7	.0	.0	.0	.0	.9
80/84	1.4	4.9	28.8	31.3	3.2	2.1	1.9	2.3	.0	1.5
75/79	.4	.3	.4	1.3	.0	.0	.9	.1	.0	.0
TOTAL	2.1	6.5	38.6	38.8	4.2	2.1	2.8	2.4	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	89	87	83	80	77	72	83.2	306
06009	95	93	90	84	80	76	75	84.2	286
12015	92	87	85	83	80	77	72	82.6	450
18021	85	84	84	82	78	75	72	81.7	331
TOT	95	90	87	83	79	76	72	82.8	1373

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.6	32.1	44.0	20.2	83	84		
06009	.0	1.2	16.3	40.0	31.8	10.6	78	85		
12015	.0	.0	2.0	24.8	56.4	16.8	83	101		
18021	.0	.0	1.0	14.6	62.1	22.3	85	103		
TOT	0	1	20	101	185	66	82	373		

PERIOD: (PRIMARY) 1918-1972
(OVER-ALL) 1800-1972

MAY

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.8	3	.0	.8
7/8	.0	.0	.0	.0	.0	.5	.0	2	.0	.5
5	.0	.0	.0	.0	1.0	.3	.0	5	.0	1.3
4	.0	.0	.0	.5	1.5	.0	.0	8	.0	2.0
3	.0	.0	.0	1.0	2.6	.0	.0	14	.0	3.6
2	.0	.0	.3	4.3	4.6	.0	.0	36	.0	9.2
1	.0	.0	.0	4.9	3.8	.8	.0	37	.3	9.2
0	.0	.0	1.0	16.1	3.1	.8	.0	82	.0	21.0
-1	.0	.0	.5	10.0	1.3	.0	.0	46	.0	11.8
-2	.5	.5	1.5	19.9	1.3	.0	.0	93	.8	23.0
-3	.0	.0	1.5	4.3	.0	.0	.0	23	.0	5.9
-4	.3	.0	2.0	3.3	.0	.0	.0	22	.3	5.4
-5	.0	.8	1.5	.8	.0	.0	.0	12	.0	3.1
-6	.7	.5	1.0	.3	.0	.0	.0	6	.0	1.5
-7/-8	.0	.0	.0	.5	.0	.0	.0	2	.0	.5
TOTAL	3		37		75		3	391	5	386
PCT	.8	1.5	9.5	66.0	19.7	2.3	.8	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.7	.0	.0	.0	.0	1.7	.7	1.8	.0	.0	.0	.0	2.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	.7	3.3	.2	.0	.0	.0	4.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	6.6	3.0	.0	.0	.0	9.6	.7	5.6	1.0	.0	.0	.0	7.3
1-2	.0	10.1	12.4	.0	.0	.0	22.5	.0	4.8	10.8	.0	.0	.0	15.6
3-4	.0	4.5	7.0	.0	.0	.0	11.4	.0	1.5	11.6	.0	.0	.0	13.1
5-6	.0	.0	3.5	.0	.0	.0	3.5	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.2	25.8	.0	.0	.0	47.0	.7	11.9	28.3	.0	.0	.0	40.9

AREA 0013 SOUTHEAST JAVA SEA
6.35 113.02

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

Pfj10: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

JUNE

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	*HMR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	9.1	4.5	.0	.0	.0	.0	.0	13.6	.0	.0	.0	.0	.0	.0	86.4
NE	.0	6.5	.0	.0	.0	.0	.0	6.5	.0	6.5	.0	.0	.0	.0	87.1
E	1.3	2.7	.0	.0	.0	.0	.0	4.0	.5	3.8	3.8	.0	2.2	.0	88.0
SE	2.0	1.2	1.0	.0	.0	.0	.0	3.7	.5	2.0	1.5	.0	1.0	.0	92.4
S	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	7.0	1.4	.0	2.8	.0	86.0
SW	.0	17.0	.0	.0	.0	.0	.0	17.0	.0	.0	4.3	.0	.0	.0	78.7
W	.0	18.2	.0	.0	.0	.0	.0	18.2	.0	18.2	.0	.0	.0	.0	63.6
NW	.0	6.1	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	93.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.8	2.7	.4	.0	.0	.0	.0	4.7	.4	3.3	2.2	.0	1.4	.0	88.6
TOT OBS:	490														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.7	1.7	.9	.0	.0	.0	.0	3.5	.0	.0	2.6	.0	1.7	.0	92.2
06009	.8	2.5	.0	.0	.0	.0	.0	3.3	.8	1.7	2.5	.0	3.3	.0	88.3
12015	1.4	3.4	.0	.0	.0	.0	.0	4.8	.0	2.8	2.8	.0	1.4	.0	88.3
18021	3.4	3.4	.8	.0	.0	.0	.0	7.6	.8	8.5	1.7	.0	.0	.0	83.9
TOT PCT 498	1.8	2.8	.4	.0	.0	.0	.0	4.8	.4	3.2	2.4	.0	1.6	.0	88.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.5	1.4	.1	.0	.0	.0		2.0	5.0		1.0	1.5	1.7	4.4	3.6	.6	.8	1.3
NE	.8	5.7	1.0	.0	.0	.0		7.6	7.3		2.2	7.4	3.2	19.1	11.4	5.0	8.4	2.9
E	2.0	27.1	11.8	.2	.1	.0		36.2	9.5		26.1	34.7	36.6	39.6	42.6	38.3	40.1	30.1
SE	1.9	21.6	13.0	.2	.0	.0		36.7	9.6		34.8	31.7	42.7	25.2	30.6	37.7	32.9	39.1
S	1.4	5.9	1.6	.1	.0	.0		8.9	7.7		9.5	10.4	7.1	3.7	5.2	10.2	6.5	16.5
SW	.6	1.9	.5	.1	.0	.0		3.2	7.2		2.7	3.5	3.4	.3	1.0	4.1	3.0	7.4
W	.4	.7	.3	.0	.0	.0		1.5	6.8		1.9	4.0	1.7	1.7	.9	1.8	.4	.4
NW	.3	.6	.2	.0	.0	.0		1.2	6.8		1.1	2.0	.9	2.7	.9	.0	2.0	.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0		.6	5.0	2.6	3.4	3.8	2.3	4.0	1.6
TOT OBS	132	743	355	4	1	0	1239		8.7		156	101	116	149	234	171	124	188
TOT PCT	10.7	60.0	28.7	.6	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18		
		03	09	15	21									
N	1.7	.3	.0	.0	.0		2.0	5.0	1.2	3.2	2.3	1.1		
NE	4.1	3.3	.2	.0	.0		7.6	7.3	4.3	12.2	8.7	5.0		
E	9.5	23.0	1.7	.1	.0		36.2	9.5	29.5	38.3	40.8	34.1		
SE	10.1	24.4	2.2	.0	.0		36.7	9.6	45.7	32.8	33.6	36.6		
S	4.3	4.2	.4	.0	.0		8.9	7.7	9.8	5.2	7.3	13.3		
SW	2.0	1.0	.1	.1	.0		3.2	7.2	3.0	1.7	2.3	5.7		
W	.8	.6	.0	.0	.0		1.5	6.8	2.7	1.7	1.2	.5		
NW	.7	.4	.0	.0	.0		1.2	6.8	1.5	1.9	.5	1.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.8						2.8	.0	2.3	3.0	3.2	2.6		
TOT OBS	446	733	38	2	0	1239		8.7	257	265	405	312		
TOT PCT	36.0	59.2	4.7	.2	.0		100.0		100.0	100.0	100.0	100.0		

JUNE

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.3	8.9	56.0	31.9	.8	.0	.0	8.8	100.0	257
0600	3.0	8.7	54.7	32.8	.4	.4	.0	8.9	100.0	265
1200	3.2	6.7	63.5	26.2	.5	.0	.0	8.6	100.0	405
1800	2.6	7.7	63.1	25.6	1.0	.0	.0	8.6	100.0	312
TOT	95	97	743	355	8	1	0	8.7		1239
PCT	2.8	7.8	60.0	28.7	.6	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.5		8.0
NE	.7	.7	.5	.0		3.1
E	13.8	8.5	12.0	.5		3.5
SE	18.2	19.9	12.0	2.2		3.4
S	3.4	.4	2.2	.4		3.6
SW	.0	.0	.1	.1		7.0
W	.0	.0	.8	.5		7.1
NW	.0	.0	1.2	.0		5.6
VAP	.0	.0	.0	.0		.0
CALM	.5	.0	.0	.5		4.5
TOT OBS	67	54	53	9	183	3.5
TOT PCT	36.6	29.5	29.0	4.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
E	.0	.0	.0	1.5	4.6	.0	1.1	.0	.0	.0	.0	27.6
SE	.0	.0	.0	2.9	3.0	.0	.0	.0	.0	.0	.0	45.9
S	.0	.0	.0	.5	.4	.5	.0	.0	.0	.0	.0	4.9
SW	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	.0	.4
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.7
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
TOT OBS	0	0	1	11	15	2	2	0	1	0	151	183
TOT PCT	.0	.0	.5	6.0	8.2	1.1	1.1	.0	.5	.0	82.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.5	.5	.5	.5	.5	.5	.5
>5000	.5	.5	.5	.5	.5	.5	.5	.5
>3500	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>2000	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>1000	4.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0
>600	7.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0
>300	7.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
>150	7.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
>0	7.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
TOTAL	13	32	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 182

PCT FREQ NH <5/8: 82.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
11.1	22.2	21.2	17.5	10.1	4.4	5.8	5.8	1.6	.0	189

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

JUNE

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.8	.4	.2	.0	.0	.0	.0	.0	.0	1.4
	TOT %	.0	.0	.8	.4	.2	.0	.0	.0	.0	.0	.0	1.4
2<5	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.8
5<10	PCP	.3	.3	.9	.8	.2	.0	.2	.1	.0	.0	.0	2.9
	NO PCP	.9	2.0	16.6	16.0	3.0	1.5	.6	.3	.0	.4	.4	41.4
	TOT %	1.2	2.3	17.6	16.9	3.2	1.5	.8	.4	.0	.4	.4	44.3
10+	PCP	.0	.0	.4	.7	.1	.4	.0	.0	.0	.0	.0	1.6
	NO PCP	1.0	2.5	16.5	23.1	3.8	.5	.4	1.3	.0	.8	.8	51.8
	TOT %	1.0	2.5	17.0	23.8	3.9	.9	.4	1.3	.0	.8	.8	53.5
TOT OBS													448
TOT PCT		2.3	4.8	37.9	41.3	7.3	2.4	1.1	1.7	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.3	.4	.1	.0	.0	.0	.0	.0	.9	.9
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.7	.3	.1	.0	.0	.0	.0	.0	1.1	1.1
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.4	.2	.1	.1	.0	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.3	.2	.1	.0	.0	.0	.0	.0	1.0	1.0
5<10	0-3	.0	.1	.4	.3	.3	.0	.0	.0	.0	.2	1.4	1.4
	4-10	.6	1.4	4.6	4.3	1.4	.8	.2	.2	.0	.0	13.5	13.5
	11-21	.1	.4	6.5	6.0	.1	.2	.2	.0	.0	.0	13.4	13.4
	22+	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.7	1.8	11.6	10.6	1.9	.9	.5	.2	.0	.2	28.6	28.6
10+	0-3	.6	.7	1.7	1.6	1.1	.4	.3	.5	.0	2.5	9.3	9.3
	4-10	.7	3.4	17.5	16.4	3.5	1.1	.2	.4	.0	.0	43.2	43.2
	11-21	.0	.2	5.8	8.8	1.0	.1	.0	.0	.0	.0	15.9	15.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.2	4.3	25.0	26.8	5.6	1.6	.5	.8	.0	2.5	68.4	68.4
TOT OBS													805
TOT PCT		2.0	6.6	37.9	38.4	7.9	2.6	.9	1.1	.0	2.7	100.0	

JUNE

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	1.8	5.4	7.1	1.8	.0	.0	.0	.0	16.1	83.9	56
06Z09	.0	.0	.0	5.3	12.3	.0	1.8	.0	.0	.0	19.3	80.7	57
12Z15	.0	.0	.0	6.3	3.1	.0	.0	.0	3.1	.0	12.5	87.5	32
18Z21	.0	.0	.0	7.1	7.1	2.4	2.4	.0	.0	.0	19.0	81.0	42
TOT	0	0	1	11	15	2	2	0	1	0	32	155	187
PCT	.0	.0	.5	5.9	8.0	1.1	1.1	.0	.5	.0	17.1	82.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	1.2	.0	1.8	1.8	26.6	68.6	169
06Z09	1.2	.0	2.3	1.2	30.1	65.3	173
12Z15	.0	.0	.7	.7	25.7	72.4	272
18Z21	1.0	.0	.5	.5	33.2	64.8	199
TOT	7	0	10	8	233	555	813
PCT	.9	.0	1.2	1.0	28.7	68.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <1	1000+ ANDS+	NM <3/8 AND 5+	TOTAL OBS
00Z03	.0	1.8	7.3	9.1	83.6	55
06Z09	.0	.0	5.3	14.5	80.0	55
12Z15	.0	.0	6.3	6.3	87.5	32
18Z21	.0	.0	7.5	12.5	80.0	40
TOT	0	1	12	20	190	182
PCT	.0	.5	6.6	11.0	82.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.3	.0	.0	3	.9
85/89	.0	.0	.0	.3	1.4	2.6	.9	.3	19	5.5
80/84	.0	.0	.0	.6	4.9	30.1	42.9	9.0	302	87.5
75/79	.0	.0	.0	.0	.0	1.2	2.0	2.6	20	5.8
70/74	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
TOTAL	0	0	0	3	24	118	158	42	345	100.0
PCT	.0	.0	.0	.9	7.0	34.2	45.8	12.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0
85/89	.0	.9	2.2	1.9	.2	.0	.0	.3	.0	.0
80/84	2.2	3.0	33.6	37.4	6.7	1.7	.7	.8	.0	1.4
75/79	.4	.1	.7	2.1	1.4	.6	.3	.1	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
TOTAL	2.6	4.1	37.0	41.7	8.4	2.2	1.3	1.2	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	92	91	87	82	79	79	77	82.6	252
06Z09	91	90	88	85	80	78	78	83.4	258
12Z15	91	88	84	82	79	78	73	82.0	406
18Z21	87	84	83	81	78	76	76	81.0	310
TOT	92	89	86	82	79	77	73	82.1	1226

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	1.4	5.6	29.6	52.1	11.3	81	71		
06Z09	.0	.0	15.3	43.3	30.6	9.4	78	85		
12Z15	.0	1.0	2.0	38.4	42.4	16.2	82	99		
18Z21	.0	1.0	5.1	24.5	58.2	11.2	82	98		
TOT	0	3	25	120	162	43	61	353		

PERIOD: (PRIMARY) 1916-1972
(OVER-ALL) 1861-1972

JUNE

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73	77	81	85	89	TOT	N FOG	WU FOG
	76	80	84	88	92			
9/10	.0	.0	.3	.0	.3	2	.0	.0
7/8	.0	.0	.6	.0	1.2	6	.0	1.7
6	.0	.0	.3	.0	1.2	5	.0	1.3
5	.0	.0	.0	.6	.9	5	.0	1.5
4	.0	.0	.3	2.6	.0	10	.3	2.6
3	.0	.0	.9	2.6	.0	12	.0	3.3
2	.0	.3	5.2	2.9	.0	29	.0	8.4
1	.0	.3	7.6	1.2	.0	31	.6	8.4
0	.0	2.6	21.8	.3	.0	85	1.5	23.3
-1	.0	.9	11.0	.9	.0	46	.6	12.8
-2	.0	2.3	14.2	.0	.0	57	.6	16.0
-3	.0	1.5	4.9	.0	.0	22	.0	6.4
-4	.3	2.3	4.4	.0	.0	24	.0	7.0
-5	.0	.6	.3	.0	.0	3	.0	.9
-6	.0	.6	.0	.0	.0	2	.0	.6
-7/-8	.3	.6	.3	.0	.0	4	.0	1.7
-9/-10	.0	.0	.3	.0	.0	1	.0	.3
TOTAL	2	41	251	38	12	344	17	332
PCT	.6	11.9	73.0	11.0	3.5	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT):

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7	.0	.2	.7	.0	.0	.0	.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.5	.0	.0	.0	.0	3.1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	8.5	7.2	.0	.0	.0	15.7	.0	5.9	22.2	.0	.0	.0	30.1
3-4	.0	4.2	10.1	.0	.0	.0	14.4	.0	3.1	14.1	.0	.0	.0	17.2
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.7	4.4	.0	.0	.0	5.1
7	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	1.3	.0	.0	.0	1.5
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	15.2	23.2	.0	.0	.0	37.1	2.0	11.6	42.2	.0	.0	.0	55.7

PERIOD: (OVER-ALL) 1963-1972

JUNE

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.7	.5	.0	.0	.0	.0	1.1	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.0	.0	.0	.0	.0	1.6	.0	.2	.2	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.0	.0	.0	.0	.0	.5	.2	.7	.0	.0	.0	.0	.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	.0	.5	.0	.0	.0	1.0	.2	.7	.0	.0	.0	.0	.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.3	5.2	.0	.0	.0	.0	6.5	33.5
1-2	2.6	15.7	29.4	.0	.0	.0	47.7	
3-4	.0	7.9	44.8	.0	.0	.0	52.7	
5-6	.0	.7	7.8	.0	.0	.0	8.5	
7	.0	.0	3.9	.0	.0	.0	3.9	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	29.4	66.7	.0	.0	.0	100.0	133

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.2	34.0	24.7	7.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	3
6-7	.0	4.1	8.8	3.1	.9	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
8-9	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	9
INDET	.0	1.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
TOTAL	16	76	67	22	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	194	3
PCT	8.2	39.2	34.5	11.3	4.6	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

TABLE 1

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54.5	.0	45.5
NE	12.1	2.0	.0	.0	.0	.0	.0	14.1	.0	.0	2.0	.0	14.1	.0	69.7
E	.0	1.8	.0	.0	.0	.0	.0	1.8	1.3	1.1	1.1	.0	2.9	.0	91.7
SE	.6	.3	.0	.0	.0	.0	.0	1.0	.2	1.0	.0	.0	.6	.0	97.2
S	.0	3.5	.0	.0	.0	.0	.0	3.5	.0	2.3	2.3	.0	2.3	.0	89.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	5.8	.0	14.5	.0	.0	.0	79.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	.0	10.5	.0	78.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.0	1.2	.0	.0	.0	.0	.0	2.2	.7	1.0	1.7	.0	3.5	.0	90.8
TOT OBS:	402														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	.0	4.9	.0	.0	.0	.0	.0	4.9	1.2	.0	2.5	.0	3.7	.0	87.7
0600Z	.9	.0	.0	.0	.0	.0	.0	.9	.9	.0	2.8	.0	6.6	.0	88.7
1201Z	1.5	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	2.3	.0	3.8	.0	91.0
1802Z	2.0	3.0	.0	.0	.0	.0	.0	5.0	1.0	2.0	.0	.0	4.0	.0	88.0
TOT PCT TOT OBS:	1.2 420	1.7	.0	.0	.0	.0	.0	2.9	.7	1.0	1.9	.0	4.5	.0	89.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.1	.7	.0	.0	.0	.0			.8	5.6	.0	1.0	.0	2.2	2.0	.3	.0	.0
NE	.3	4.6	1.4	.1	.0	.0			6.5	8.7	.3	6.4	7.4	14.9	10.6	5.1	6.6	2.5
E	1.3	19.6	10.6	.8	.0	.0			32.4	9.9	16.0	30.4	25.9	39.0	39.0	34.9	43.5	25.6
SE	2.0	26.5	10.1	.2	.0	.0			38.8	8.9	47.5	44.8	50.8	37.6	31.2	40.0	39.1	41.7
S	1.1	9.0	2.7	.2	.0	.0			13.0	8.3	24.8	7.9	10.5	7.1	9.9	11.5	11.9	17.4
SW	.3	2.9	1.0	.1	.0	.0			4.3	8.7	5.4	1.0	5.8	1.1	3.7	4.4	7.0	9.2
W	.5	.4	.0	.0	.0	.0			.9	4.2	.7	3.5	1.1	.6	1.1	.9	.0	.4
NW	.3	.5	.0	.0	.0	.0			.8	4.0	.0	1.0	2.6	2.5	1.0	.6	.0	.0
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5								2.5	.0	5.3	4.0	1.1	1.1	2.0	5.1	1.7	2.2
TOT OBS	110	833	325	16	0	0	1294		8.8		152	101	95	178	250	195	99	224
TOT PCT	8.5	64.4	25.9	1.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.0	.2	.0	.0	.0	.0	.8	5.6	.4	1.5	1.2	.0	.0
NE	2.2	3.9	.3	.0	.0		6.5	8.7	2.8	10.5	8.2	3.7	.0
E	7.7	22.1	2.5	.1	.0		32.4	9.9	21.7	34.4	37.2	32.4	.0
SE	11.6	25.5	1.6	.1	.0		38.8	8.9	48.4	37.6	35.1	39.1	.0
S	5.1	7.1	.7	.0	.0		13.0	8.3	18.1	8.8	10.6	15.7	.0
SW	1.6	2.4	.3	.0	.0		4.3	8.7	3.7	2.7	3.7	7.0	.0
W	.8	.2	.0	.0	.0		.9	4.2	1.8	.7	1.0	.3	.0
NW	.7	.1	.0	.0	.0		.8	4.0	.4	2.6	.6	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	4.7	1.1	2.3	1.9	.0
TOT OBS	424	796	71	3	0	1294	8.8		253	273	445	323	.0
TOT PCT	32.8	61.5	5.5	.2	.0		100.0		100.0	100.0	100.0	100.0	.0

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

DIR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.7	6.7	59.3	28.5	.8	.0	.0	8.6	100.0	253
06009	1.1	9.2	60.1	28.9	.7	.0	.0	8.9	100.0	273
12015	2.5	5.2	77.4	23.1	1.8	.0	.0	8.8	100.0	445
18011	1.9	4.0	67.1	23.2	3.2	.0	.0	8.8	100.0	401
TOT	32	78	833	335	16	.0	.0	8.8		1294
PCT	2.5	6.0	64.4	25.9	1.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION					MEAN
WIND DIR	0-2	3-4	5-7	8 & OVER	CLOUD COVER
N	.0	.0	.0	.0	.0
NE	1.0	1.2	.0	.8	3.9
E	15.9	11.3	4.8	2.2	3.1
SE	22.6	13.5	7.3	2.6	2.9
S	3.0	2.4	2.8	.0	3.7
SW	1.2	.2	.4	.8	4.2
W	.8	.0	.6	.0	3.5
NW	.8	.0	.0	.0	2.0
VAR	.0	.0	.0	.0	.0
CALM	1.6	2.4	.0	.0	2.6
TOT OBS	59	39	20	8	3.1
TOT PCT	46.8	31.2	15.4	6.3	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

[illegible]

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (IN' >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	• OR ≥10	• OR ≥5	• OR ≥2	• OR ≥1	• OR ≥1/2	• OR ≥1/4	• OR ≥50YD	• OR ≥0
• R ≥5000	.8	.8	.8	.8	.8	.8	.8	.8
• R ≥3000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
• R ≥2000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
• R ≥1000	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
• R ≥1000	10.2	10.2	11.0	11.0	11.0	11.0	11.0	11.0
• R ≥600	11.8	12.6	12.6	12.6	12.6	12.6	12.6	12.6
• R ≥300	11.8	12.6	13.4	13.4	13.4	13.4	13.4	13.4
• R ≥150	11.8	12.6	13.4	13.4	13.4	13.4	13.4	13.4
• R ≥ 0	11.8	12.6	13.4	13.4	13.4	13.4	13.4	13.4
TOTAL:	15	16	17	17	17	17	17	17

TOTAL NUMBER OF DBS: 127

PCT FRED NH 45/31 86.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.4	22.3	26.2	17.7	5.4	6.9	.8	1.5	3.8	.0	130

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

JULY

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.4	.7	.2	.0	.1	.5	.0	.0	.0	.0	
	TOT %	.7	.4	.7	.2	.0	.1	.5	.0	.0	.0	.0	
2<5	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	2.5	10.9	12.3	5.6	2.4	.6	.2	.0	1.0	1.7	
	TOT %	.4	3.1	11.5	12.6	5.7	2.4	.6	.2	.0	1.0	37.6	
10+	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	2.2	21.3	25.4	4.2	1.7	.4	1.2	.0	1.2	38.0	
	TOT %	.2	2.2	21.3	25.4	4.4	1.7	.4	1.2	.0	1.2	38.2	
TOT OBS													
TOT PCT		1.4	6.2	33.8	38.3	10.6	4.9	1.2	2.0	.0	2.2	100.0	402

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	
	4-10	.3	.2	.4	.1	.1	.0	.0	.1	.0	.0	.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.2	.4	.3	.1	.0	.1	.3	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.1	.1	.2	.1	.0	.0	.0	.0	
5<10	0-3	.0	.2	.3	.3	.1	.0	.1	.0	.0	.5	1.6	
	4-10	.2	1.3	4.2	4.6	2.5	1.0	.2	.1	.0	.0	14.2	
	11-21	.0	.3	2.1	2.3	.6	.3	.0	.0	.0	.0	3.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	1.7	6.6	7.2	3.2	1.3	.3	.1	.0	.5	21.4	
10+	0-3	.0	.2	.8	1.7	.3	.5	.3	.1	.0	1.9	5.7	
	4-10	.3	2.3	13.4	21.2	5.2	1.8	.3	.5	.0	.0	47.0	
	11-21	.0	1.0	9.3	9.2	2.2	.7	.0	.0	.0	.0	22.4	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	3.4	23.6	32.1	7.8	3.0	.6	.7	.0	1.9	75.3	
TOT OBS													
TOT PCT		.9	5.8	33.0	39.9	11.4	4.5	1.0	1.1	.0	2.4	100.0	749

JULY

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	100 209	200 309	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	2400 2499	TOTAL OBS
00003	.0	.0	3.4	6.9	6.9	6.9	.0	3.4	3.4	.0	31.0	69.0	29													
06009	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	5.9	94.1	34													
12015	.0	.0	.0	.0	2.7	2.7	.0	.0	.0	.0	5.4	94.6	37													
18021	.0	.0	.0	.0	3.3	6.7	3.3	.0	.0	.0	13.3	86.7	30													
TOT	0	0	1	2	5	6	1	1	1	0	17	113	130													
PCT	.0	.0	.8	1.5	3.8	4.6	.8	.8	.8	.0	13.1	86.9	100.0													

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.4	2.9	.0	26.1	69.6	138
06009	.7	.0	4.1	3.4	23.0	68.9	148
12015	.7	.0	1.4	.0	18.9	78.9	285
18021	1.0	.0	2.0	.5	23.2	73.2	198
TOT	5	2	18	6	170	568	769
PCT	.7	.3	2.3	.8	22.1	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.6	10.7	21.4	67.9	28
06009	.0	.0	2.9	2.9	94.1	34
12015	.0	.0	.0	5.7	94.3	35
18021	.0	.0	.0	13.3	86.7	30
TOT	0	1	4	13	110	127
PCT	.0	.8	3.1	10.2	86.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	.0	1.9	1.5	.4	.0	10	3.8
80/84	.0	.0	.0	.8	8.0	36.8	23.0	5.4	193	73.9
75/79	.0	.0	.0	.0	.8	8.8	7.7	4.2	56	21.5
70/74	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	0	3	28	123	81	26	261	100.0
PCT	.0	.0	.0	1.1	10.7	47.1	31.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
.0	.5	1.6	.6	.2	.6	.0	.0	.0	.4
2.1	5.3	23.7	29.7	7.1	2.3	1.1	2.3	.0	.4
.0	1.5	4.5	6.2	4.8	3.0	.7	.0	.0	.8
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
2.1	7.3	30.6	36.5	12.1	5.8	1.8	2.3	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	88	85	81	77	75	73	80.9	254
06009	93	88	86	82	79	77	77	82.4	262
12015	86	84	83	81	78	76	75	80.7	449
18021	85	83	82	80	76	75	73	79.7	327
TOT	93	87	84	81	77	75	73	80.9	1292

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	5.9	43.1	29.4	21.6	81	51		
06009	.0	1.5	18.2	56.1	19.7	4.5	75	86		
12015	.0	2.4	9.5	45.2	36.9	6.0	79	84		
18021	.0	.0	6.6	46.1	35.5	11.8	81	76		
TOT	0	3	28	132	86	28	79	277		

PERIOD: (PRIMARY) 1916-1970
(OVER-ALL) 1857-1970

JULY

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THF OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	N TDC	WD FUG
7/8	.0	.0	.0	.0	.3	.3	2	.0	.6
6	.0	.0	.6	.0	.0	.0	2	.0	.6
5	.0	.0	.0	.3	.0	.0	1	.0	.3
4	.0	.6	1.2	1.5	.0	.0	11	.0	3.3
3	.0	.3	.3	1.2	.0	.0	6	.0	1.8
2	.0	1.2	5.4	.3	.0	.0	23	.0	6.9
1	.0	1.5	7.8	.0	.0	.0	31	.3	9.0
0	.3	5.4	20.1	.3	.0	.0	87	.6	25.4
-1	.0	6.3	8.7	.0	.0	.0	50	.6	14.4
-2	.9	9.0	10.2	.0	.0	.0	67	.0	20.1
-3	.3	2.7	2.1	.0	.0	.0	17	.0	5.1
-4	1.2	4.2	1.3	.0	.0	.0	23	.0	6.9
-5	.6	2.1	.3	.0	.0	.0	10	.0	3.0
-6	.0	.6	.0	.0	.0	.0	2	.0	.6
-7/-8	.3	.3	.0	.0	.0	.0	2	.0	.6
TOTAL	12		194		1		334	5	329
PCT	3.6	114	58.1	3.6	.3	.3	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1943-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	3.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	10.3	9.6	.0	.0	.0	19.9	.0	13.0	4.1	.0	.0	.0	17.1
3-4	.0	4.8	9.6	.0	.0	.0	14.4	.0	3.4	13.7	.0	.0	.0	17.1
5-6	.0	1.4	5.5	.0	.0	.0	6.8	.0	2.7	8.2	.0	.0	.0	11.0
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.8	25.7	.0	.0	.0	43.5	.0	20.5	26.4	.0	.0	.0	46.9

PERIOD: (OVER-ALL) 1963-1970

JULY
TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.4	1.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	1.0	.0	.0	.0	4.5	.0	.3	.0	.0	.0	.0	.3

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	4.1	.0	.0	.0	.0	4.1	
1-2	.0	28.8	15.1	.0	.0	.0	43.9	
3-4	.0	8.2	23.3	.0	.0	.0	31.5	
5-6	.0	4.1	15.1	.0	.0	.0	19.2	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	45.2	54.8	.0	.0	.0	100.0	73

PERIOD: (OVER-ALL) 1957-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.6	20.4	19.4	8.3	.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	3
6-7	.0	.9	11.1	11.1	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	.9	3.7	5.6	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	6	28	40	24	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	108	3
PCT	5.6	25.9	37.0	22.2	7.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	88.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	9.6	.0	88.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	3.9	.0	95.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.6	.0	95.8
S	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	6.3	.0	91.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0	95.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.2	.0	.0	.0	.0	.0	.2	.2	.0	.5	.0	4.0	.0	95.1
TOT OBS:	425														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	2.0	.0	95.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0	90.6
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	96.5
18021	.8	.8	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	2.4	.0	95.4
TOT PCT	.2	.2	.0	.0	.0	.0	.0	.5	.2	.0	.5	.0	4.2	.0	94.7
TOT OBS:	433														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.9	.0	.0	.0	.0		1.2	5.8		.0	2.3	.4	2.6	2.4	.4	1.5	.0
NE	.3	4.3	1.7	.0	.0	.0		6.3	8.7		1.7	5.1	1.3	15.7	13.4	2.2	6.4	2.3
E	.7	21.2	13.1	.5	.0	.0		35.5	10.2		20.2	26.6	26.1	44.2	44.3	39.8	49.4	29.3
SE	.8	22.5	15.4	.9	.0	.0		39.6	10.4		49.6	38.3	50.4	32.0	31.0	42.0	30.9	44.0
S	1.0	6.9	3.6	.3	.0	.0		11.9	9.4		22.3	15.0	12.5	4.1	6.1	11.9	6.8	16.1
SW	.4	2.2	.6	.1	.0	.0		3.3	8.9		3.2	4.2	2.6	.3	1.2	2.9	2.7	6.4
W	.3	.4	.1	.0	.0	.0		.8	5.9		1.0	2.8	2.2	.9	.4	.2	.0	.2
NW	.2	.4	.1	.0	.0	.0		.3	6.1		.0	.9	1.8	.3	.0	.1	.0	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.0	4.7	2.6	.0	1.2	.5	2.3	1.2
TOT OBS	72	825	490	26	0	0	1413		9.8		191	107	114	172	249	206	132	242
TOT PCT	9.1	58.4	34.7	1.9	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	06	12	18				
N	.8	.4	.0	.0	.0			1.2	5.8		.8	1.7	1.5	.5				
NE	2.1	4.0	.2	.0	.0			6.3	8.7		2.9	10.0	8.3	3.7				
E	6.2	26.6	2.5	.0	.0			35.5	10.2		22.5	37.0	42.3	36.4				
SE	7.4	28.7	3.4	.1	.0			39.6	10.4		45.6	39.3	36.0	39.4				
S	3.5	7.6	.7	.1	.0			11.9	9.4		19.6	7.4	8.7	12.8				
SW	1.3	1.6	.2	.1	.0			3.3	8.9		4.9	1.2	2.0	3.1				
W	.5	.3	.0	.0	.0			.8	5.9		1.7	1.4	.3	.1				
NW	.2	.1	.0	.0	.0			.3	6.1		.3	.9	.1	.3				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	1.3							1.3	.0		1.7	1.0	.9	1.6				
TOT OBS	330	978	100	5	0	1413			9.8		298	286	455	374				
TOT PCT	23.4	69.2	7.1	.4	.0			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972

AUGUST

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	1.7	5.7	51.0	39.9	1.7	.0	.0	.0	9.9	100.0	298
0600	1.0	4.5	58.7	34.6	1.0	.0	.0	.0	9.6	100.0	286
1200	.9	2.9	60.9	33.0	2.4	.0	.0	.0	9.9	100.0	455
1800	1.6	2.9	61.0	32.6	1.9	.0	.0	.0	9.7	100.0	374
TOT	18	54	825	490	26	0	0	0	9.8		1413
PCT	1.3	3.8	58.4	34.7	1.8	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.8	.6	.0	.0		1.3
NE	.9	.2	.2	.0		2.1
E	14.2	11.7	7.6	1.1		2.9
SE	28.4	14.4	9.6	2.0		2.8
S	2.2	2.2	.6	1.2		3.9
SW	.3	.6	.0	.0		2.3
W	.0	.0	.0	.0		.0
NW	.2	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	.0		.5
TOT OBS	78	48	29	7	162	2.8
TOT PCT	48.1	29.6	17.9	4.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
E	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	33.3
SE	.0	.0	.0	.6	.0	.6	.6	.0	.0	.0	.0	52.5
S	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	4.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
TOT OBS	0	0	1	3	0	2	1	0	0	0	155	162
TOT PCT	.0	.0	.6	1.9	.0	1.2	.6	.0	.0	.0	95.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5000	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >2000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >1000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >600	2.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
= OR >300	2.5	3.7	4.3	4.3	4.3	4.3	4.3	4.3
= OR >150	2.5	3.7	4.3	4.3	4.3	4.3	4.3	4.3
= OR >0	2.5	3.7	4.3	4.3	4.3	4.3	4.3	4.3
TOTAL	4	6	7	7	7	7	7	7

TOTAL NUMBER OF OBS: 163

PCT FREQ NH <5/8: 95.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.3	25.7	25.7	18.9	6.3	3.4	.0	.0	1.7	.0	175

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1853-1972

AUGUST

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.4	.7	1.1	.4	.0	.0	.0	.0	.0	.0	2.6
	TOT %	.1	.4	.7	1.1	.4	.0	.0	.0	.0	.0	.0	2.6
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.9	.0	.0	.7	.0	.0	.0	.0	.0	1.2
	TOT %	.0	.0	.9	.0	.0	.7	.0	.0	.0	.0	.0	1.2
5<10	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	2.6	9.1	8.1	3.5	2.8	.1	.1	.0	.0	.0	26.8
	TOT %	.2	2.6	9.1	8.1	3.8	2.8	.1	.1	.0	.0	.0	27.1
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	3.2	25.6	31.6	5.3	1.8	.0	.1	.0	.9	.0	69.2
	TOT %	.6	3.2	25.6	31.6	5.3	1.8	.0	.1	.0	.9	.0	69.2
TOT OBS													425
TOT PCT		1.0	6.1	36.4	40.8	9.4	4.6	.1	.2	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.7
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.2	.2	.2	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.4	.7	.2	.0	.0	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.5	.1	.0	.1	.0	.0	.0	.0	.7	
5<10	0-3	.1	.1	.2	.2	.0	.0	.1	.1	.0	.2	.8	
	4-10	.1	1.0	3.6	2.5	.8	.9	.0	.0	.0	.0	8.9	
	11-21	.0	.3	2.1	2.5	1.1	.5	.0	.0	.0	.0	6.5	
	22+	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.1	1.4	5.9	5.3	2.0	1.4	.1	.1	.0	.2	16.5	
10+	0-3	.2	.2	.5	.4	.9	.4	.1	.1	.0	.8	3.6	
	4-10	.2	2.7	18.5	19.2	5.7	1.3	.2	.0	.0	.0	47.7	
	11-21	.0	1.4	11.4	13.2	2.2	.2	.0	.0	.0	.0	26.4	
	22+	.0	.0	.1	.5	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.5	4.3	30.4	33.3	8.0	1.9	.3	.1	.0	.8	80.4	
TOT OBS													830
TOT PCT		.6	5.9	37.5	39.9	11.0	3.4	.4	.2	.0	1.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1855-1972AREA 0013 SOUTHEAST JAVA SEA
6.25 112.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	4.3	93.7	47
06009	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	4.9	93.1	41
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	37
18021	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	6.3	93.8	48
TOT	0	0	0	1	3	0	2	1	0	0	7	166	173
PCT	.0	.0	.0	1.7	.0	1.2	.0	.0	.0	.0	4.0	96.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	16.9	80.5	164
06009	1.8	.0	4.1	.0	12.9	80.6	170
12015	1.4	.0	1.0	.7	16.7	80.8	286
18021	.5	.0	1.4	.9	19.7	77.5	218
TOT	8	0	13	6	142	669	838
PCT	1.0	.0	1.6	.7	16.9	79.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	6.8	.0	93.2	44
06009	.0	2.4	2.4	2.4	93.1	41
12015	.0	.0	.0	.0	100.0	34
18021	.0	.0	6.8	4.5	88.6	44
TOT	0	1	7	3	153	163
PCT	.0	.6	4.3	1.8	93.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
85/89	.0	.0	.0	.0	2.4	.7	.0	.0	9	3.1
80/84	.0	.0	.0	1.0	7.3	35.2	20.5	6.8	208	71.0
75/79	.0	.0	.0	.0	1.4	11.3	11.6	1.0	74	25.3
70/74	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
TOTAL	0	0	0	3	34	138	95	23	293	100.0
PCT	.0	.0	.0	1.0	11.6	47.1	32.4	7.8	-	-

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
.0	.5	.9	1.1	.3	.3	.0	.0	.0	.0
1.3	5.3	28.2	31.7	2.6	1.2	.0	.1	.0	.7
.0	.0	5.3	9.2	7.0	3.2	.0	.0	.0	.3
.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
1.3	5.8	34.5	42.3	9.9	5.1	.0	.1	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	85	84	81	78	76	75	80.8	292
06009	93	90	86	82	79	77	75	82.3	281
12015	84	83	82	80	78	76	73	80.3	452
18021	85	83	82	80	77	74	72	79.6	373
TOT	93	86	84	81	77	75	72	80.6	1398

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	9.6	46.6	34.2	9.6	79	73
06009	.0	3.0	31.8	45.5	16.7	3.0	73	66
12015	.0	1.3	6.7	57.3	26.7	8.0	79	75
18021	.0	.0	2.3	39.1	48.3	10.3	81	87
TOT	0	3	25	141	98	24	78	301

AUGUST

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1859-1972

AREA 0013 SOUTHEAST JAVA SEA
0.25 112.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THF OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.6	.0	.3	3	.0	.9
6	.0	.0	.0	.3	.0	.0	1	.0	.3
5	.0	.0	.0	.3	.6	.0	3	.0	.9
4	.0	.0	.0	.6	1.2	.0	6	.0	1.8
3	.0	.0	.6	.6	.9	.0	7	.0	2.1
2	.0	.0	1.8	3.8	.0	.0	19	.0	5.6
1	.0	.0	4.1	10.6	.0	.0	50	.0	14.7
0	.0	.0	10.0	21.9	.0	.0	107	.3	31.2
-1	.0	.0	8.5	5.6	.0	.0	48	.0	14.1
-2	.0	.3	11.8	7.1	.0	.0	65	.3	18.8
-3	.0	.0	2.4	.9	.0	.0	11	.0	3.2
-4	.0	.0	1.5	.6	.0	.0	7	.0	2.1
-5	.0	.6	.9	.0	.0	.0	5	.0	1.5
-6	.0	.0	.6	.0	.0	.0	2	.0	.6
-7/-8	.0	.6	.9	.0	.0	.0	5	.0	1.5
-9/-10	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	5	148	178	9	1	340	2	338
PCT	.3	1.5	42.9	52.4	2.6	.3	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	15.1	2.0	.0	.0	.0	17.0	.3	14.2	3.7	.0	.0	.0	18.2
3-6	.0	.0	8.5	.0	.0	.0	8.5	.0	2.3	17.6	1.1	.0	.0	21.0
5-6	.0	.9	6.5	.0	.0	.0	7.4	.0	.6	12.8	2.3	.0	.0	15.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.9	17.0	.0	.0	.0	33.0	.3	17.0	35.2	4.3	.0	.0	37.1

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.4	1.1	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.9	1.1	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	4.5	.0	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.1	33.0	6.8	.0	.0	.0	40.9	.0
3-4	.0	2.3	28.4	1.1	.0	.0	31.8	.0
5-6	.0	2.3	20.5	7.3	.0	.0	29.0	.0
7	.0	.0	1.1	1.1	.0	.0	2.3	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	37.5	56.8	4.5	.0	.0	100.0	88

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-24	25-29	30-37	38-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	19.5	31.6	12.8	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	3
6-7	.0	2.3	7.5	6.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
8-9	.0	.0	1.5	2.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4
INDET	2.3	.0	.8	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOTAL	5	29	57	28	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCT	3.8	21.8	42.9	21.1	8.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	77.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	97.5
E	1.0	.0	1.0	.0	.0	.0	.0	1.0	1.3	.0	2.5	.0	4.4	.0	90.8
SE	.2	.0	.2	.0	.0	.0	.0	.2	.0	1.5	2.3	.0	3.3	.0	92.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.1	.0	3.1	.0	88.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	71.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.4		.4	.0	.0	.0	.0	.4	.4	1.1	2.6	.0	3.7	.0	91.9
TOT OBS:	271														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00Z03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	6.8	.0	91.8
06Z09	.0	.0	1.7	.0	.0	.0	.0	1.7	1.7	.0	1.7	.0	3.4	.0	91.4
12Z15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.2	.0	3.9	.0	89.6
18Z21	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	1.4	.0	.0	.0	95.8
TOT PCT TOT OBS:	.4 279	.0	.4	.0	.0	.0	.0	.4	.4	1.1	2.5	.0	3.6	.0	92.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.8	.0	.0	.0	.0		1.1	5.4	.7	2.8	1.8	1.0	1.5	.6	.0	.0	.3
NE	.4	4.9	2.3	.0	.0	.0		7.6	9.2	1.1	5.5	4.7	20.1	14.2	3.4	6.6	1.1	
E	1.1	19.1	10.3	.1	.0	.0		30.6	9.7	17.3	18.8	23.2	37.6	42.6	33.7	36.0	25.0	
SE	1.8	27.0	13.9	.1	.0	.0		42.8	9.5	34.9	45.9	58.6	31.2	29.8	45.1	40.1	49.2	
S	.7	8.1	3.4	.2	.0	.0		12.3	9.0	19.4	17.4	7.4	7.3	7.6	11.7	11.5	16.8	
SW	.5	2.2	.5	.0	.0	.0		3.1	7.6	4.9	3.2	1.8	1.6	2.6	2.1	2.2	5.5	
W	.3	.5	.0	.0	.0	.0		.8	5.9	.4	2.3	.6	.0	.4	1.8	1.4	.2	
NW	.1	.5	.0	.0	.0	.0		.6	5.1	.0	3.2	1.8	.6	.2	.3	.0	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1							1.1	.0	1.4	.9	.0	.6	.9	1.2	2.2	1.6	
TOT OBS	72	734	353	5	0	0	1164		9.2	142	109	85	157	227	163	91	190	
TOT PCT	6.2	63.1	30.3	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	.7	.3	.0	.0	.0			1.1	5.4	1.6	1.2	1.2	.4		
NE	1.7	5.7	.2	.0	.0			7.6	9.2	3.0	14.7	9.7	2.8		
E	5.4	22.4	1.8	.0	.0			30.6	9.7	17.9	32.3	38.9	28.6		
SE	10.5	29.7	2.5	.1	.0			42.8	9.5	31.0	40.9	36.2	46.3		
S	4.1	7.5	.8	.0	.0			12.3	9.0	18.5	7.3	9.3	15.1		
SW	1.2	2.0	.0	.0	.0			3.1	7.6	4.2	1.7	4.4	4.4		
W	.4	.4	.0	.0	.0			.8	5.9	1.2	.2	1.0	.6		
NW	.5	.1	.0	.0	.0			.6	5.1	1.4	1.0	.3	.0		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.1							1.1	.0	1.2	.4	1.0	1.8		
TOT OBS	310	792	61	1	0	1164			9.2	251	242	390	281		
TOT PCT	26.5	68.0	5.2	.1	.0			100.0		100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

	WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.2	8.4	59.4	31.1	.0	.0	.0	.0	9.0	100.0	251
06009	.4	4.5	63.6	30.8	.8	.0	.0	.0	9.6	100.0	242
12015	1.0	4.1	63.6	30.8	.5	.0	.0	.0	9.2	100.0	390
18021	1.8	3.9	65.1	28.8	.4	.0	.0	.0	9.2	100.0	281
TOT	13	59	734	353	5	0	0	0	9.2		1164
PCT	1.1	5.1	63.1	30.3	.4	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	.0	.0
NE	1.5	.3	1.3	.0	3.7	3.7
E	14.5	5.5	7.8	1.0	2.9	2.9
SE	28.3	16.5	8.5	2.3	2.6	2.6
S	2.5	.8	3.5	.8	4.2	4.2
SW	1.5	.0	.0	.0	1.6	1.6
W	.8	.0	.0	.0	2.0	2.0
NW	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	2.0	1.0	.0	.0	1.3	1.3
TOT OBS	51	24	21	4	100	2.0
TOT PCT	51.0	24.0	21.0	4.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 34/8
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ NH 45/8	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6
E	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	26.8
SE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	55.0
S	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.8	4.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	0	0	4	0	0	0	0	2	94
TOT PCT	.0	.0	.0	.0	4.0	.0	.0	.0	.0	2.0	94.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 34/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >2000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >1000	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >600	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >300	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >150	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
TOTAL	6	6	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 101

PCT FREQ NH 45/8: 94.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	21.0	27.4	35.5	10.5	.8	.8	2.4	.8	.8	.0	124

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

SEPTEMBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.7	1.1	.0	.0	.0	.0	.0	.0	.0	1.8
	TOT %	.0	.0	.7	1.1	.0	.0	.0	.0	.0	.0	.0	1.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.2	.6	1.1	.0	.0	.0	.0	.0	.0	.0	2.2
	TOT %	.4	.2	.6	1.1	.0	.0	.0	.0	.0	.0	.0	2.2
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	4.6	8.2	9.5	3.3	.6	.4	.4	.0	.0	.4	27.7
	TOT %	.4	4.6	8.2	9.5	3.3	.6	.4	.4	.0	.0	.4	27.7
10+	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.9	2.7	19.0	36.3	5.7	.7	.3	.7	.0	1.1	67.5	67.5
	TOT %	.9	2.7	19.3	36.4	5.7	.7	.3	.7	.0	1.1	67.9	67.9
TOT OBS													271
TOT PCT		1.7	7.9	29.1	46.2	9.0	1.3	.6	1.1	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.3
	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.1	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	.7
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.2	.4	.0	.0	.0	.0	.0	.0	.9	.9
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.2	.1	.4	.0	.0	.0	.0	.0	.9	.9
5<10	0-3	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.3	.9
	4-10	.1	1.6	2.2	2.6	1.6	.2	.1	.1	.0	.0	8.7	8.7
	11-21	.0	.4	1.5	1.8	.2	.0	.0	.0	.0	.0	3.8	3.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	2.0	4.0	4.6	1.8	.2	.1	.1	.0	.3	13.4	13.4
10+	0-3	.2	.4	.3	1.7	.4	.2	.0	.0	.0	.0	.9	4.1
	4-10	.8	3.7	18.3	24.2	6.6	1.4	.3	.4	.0	.0	59.7	59.7
	11-21	.0	2.0	8.2	10.2	2.7	.4	.0	.0	.0	.0	23.5	23.5
	22+	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	.3
	TOT %	1.0	6.0	26.9	36.2	9.9	2.1	.3	.4	.0	.9	89.8	89.8
TOT OBS													677
TOT PCT		1.3	8.4	31.9	41.9	12.1	2.3	.4	.2	.0	1.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1857-1971

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8 AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	7.4	.0	.0	.0	.0	3.7	11.1	88.9	27
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	27
12015	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	2.9	97.1	35
18021	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9	5.7	94.3	35
TOT	0	0	0	0	4	0	0	0	0	2	6	118	124
PCT	.0	.0	.0	.0	3.2	.0	.0	.0	.0	1.6	4.8	95.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.7	2.1	1.4	17.1	77.9	140
06009	1.5	.8	1.5	1.5	13.5	81.2	133
12015	.0	.8	.4	.4	12.4	86.1	251
18021	.0	.6	.6	.6	13.6	85.2	162
TOT	3	5	6	6	95	571	686
PCT	.4	.7	.9	.9	13.8	83.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8 BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	13.0	87.0	29
06009	.0	.0	.0	.0	100.0	24
12015	.0	.0	.0	4.0	96.0	25
18021	.0	.0	.0	6.9	93.1	24
TOT	0	0	0	6	95	101
PCT	.0	.0	.0	5.9	94.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.6	.0	.0	.0	.0	1	.6
85/89	.0	.0	.0	.0	1.1	3.9	2.2	.0	13	7.3
80/84	.0	.0	.0	.0	3.4	39.7	26.8	7.3	138	77.1
75/79	.0	.0	.0	.0	.0	3.9	10.1	1.1	27	15.1
TOTAL	0	0	0	1	8	85	70	15	179	100.0
PCT	.0	.0	.0	.6	4.5	47.5	39.1	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.3	1.8	4.3	.0	.3	.0	.0	.0	.0
.6	7.7	22.8	37.2	5.6	.7	.7	.8	.0	1.1
.6	.1	3.6	7.4	2.7	.7	.0	.0	.0	.0
2.1	8.1	18.2	48.9	9.4	1.7	.7	.8	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	86	82	78	76	74	81.7	21
06009	90	89	87	83	80	78	77	82.9	236
12015	87	85	83	81	79	77	72	81.0	380
18021	90	83	82	80	77	76	75	80.0	274
TOT	90	87	85	81	78	76	72	81.2	1134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	7.8	43.1	41.2	7.8	79	51		
06009	.0	.0	10.8	51.4	29.7	8.1	78	37		
12015	.0	.0	.0	49.0	39.2	9.8	80	51		
18021	.0	2.1	.0	45.8	45.8	6.3	91	48		
TOT	0	1	9	88	74	13	60	187		

PERIOD: (PRIMARY, 1914-1971
(OVER-ALL) 1837-1971

SEPTEMBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NQ FOG
9/10	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.0	.0	1.0	2	.0	1.0
6	.0	.0	.0	2.5	3.0	11	.0	3.5
5	.0	.0	.0	1.5	2.5	8	.0	4.5
4	.0	.0	1.0	7.5	.5	18	.0	9.0
3	.0	.0	3.0	11.5	1.0	31	.0	13.5
2	.0	.0	7.0	21.5	1.0	59	.5	29.0
1	.0	.0	5.5	7.0	.0	25	.0	12.5
0	.0	.0	5.5	6.5	.0	24	.0	12.0
-1	.0	.0	2.5	.0	.0	5	.0	2.5
-2	.0	1.0	3.0	1.5	.0	11	.0	5.5
-3	.0	.0	.5	.5	.0	2	.0	1.0
-4	.0	.5	.5	.0	.0	3	.0	1.5
-5	.0	.0	.0	.0	.0	1	.0	.5
-7/-8	.0	.0	.0	.0	.0	0	.0	0.0
TOTAL	1	3	57	19	200	100.0	.5	99.5
PCT	.5	1.5	28.5	60.0	9.5	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	2.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	18.8	1.1	.0	.0	.0	19.9	.0	19.5	3.7	.0	.0	.0	23.2
3-4	.0	1.1	6.3	.0	.0	.0	7.4	.0	11.8	12.0	.0	.0	.0	23.8
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	7.7	.0	.0	.0	7.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.9	8.4	.0	.0	.0	28.7	.0	34.2	27.2	.0	.0	.0	61.4

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

AREA 0013 SOUTHEAST JAVA SEA
0.25 112.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	1.1	.0	.0	.0	3.3	1.5	.4	.0	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	3.7	.0	.0	.0	5.9	1.5	.4	.0	.0	.0	.0	1.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.9	.0	.0	.0	.0	4.3	
1-2	1.4	42.0	5.8	.0	.0	.0	49.3	
3-4	.0	13.0	18.8	.0	.0	.0	31.9	
5-6	.0	.0	11.6	.0	.0	.0	11.6	
7	.0	.0	2.9	.0	.0	.0	2.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	58.0	39.1	.0	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	32.3	31.3	6.3	3.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	3
6-7	.0	2.1	3.1	3.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
8-9	.0	1.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDET	3.1	2.1	3.1	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
TOTAL	5.2	37.5	37.5	12.5	6.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	3
PCT	5.2	37.5	37.5	12.5	6.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

OCTOBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY DUST BLWG	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	.0	.0	95.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.0	8.1	.0	2.0	.0	84.8
E	2.7	.7	.0	.0	.0	.0	.0	3.3	1.3	.9	.9	.0	2.7	.0	90.9
SE	2.4	.2	.0	.0	.0	.0	.0	2.6	.2	4.1	2.8	.0	.4	.8	89.8
S	2.1	2.1	.0	.0	.0	.0	.0	4.1	.0	.0	2.1	.0	6.2	.0	87.6
SW	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	8.7	7.7	.0	19.2	.0	63.3
W	6.4	.0	.0	.0	.0	.0	.0	6.4	8.5	10.6	.0	.0	.0	.0	74.5
NW	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	4.5	.0	.0	.0	.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	.0	27.3	.0	54.5
TOT PCT	2.6	.8	.0	.0	.0	.0	.0	3.4	.8	3.4	2.0	.0	3.9	.3	86.3
TOT OBS:	380														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST SNOW	NO SIG WEA
0000	3.4	1.1	.0	.0	.0	.0	.0	4.5	.0	.0	2.3	.0	10.2	.0		83.0
0600	1.1	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	2.2	.0	3.3	.0		92.4
1200	.9	.0	.0	.0	.0	.0	.0	.9	.9	6.9	2.6	.0	2.6	.9		86.2
1800	4.2	3.4	.0	.0	.0	.0	.0	7.6	.8	4.2	3.4	.0	5.9	.0		79.8
TOT PCT TOT OBS:	2.4 415	1.2	.0	.0	.0	.0	.0	3.6	.7	3.1	2.7	.0	5.3	.2		85.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	1.7	.0	.0	.0	.0	2.6	4.6	.0	4.0	2.3	5.0	5.8	.9	3.2	.3		
NE	1.6	5.7	.7	.0	.0	.0	8.0	6.4	2.3	11.5	4.6	16.1	13.6	5.8	7.5	2.8		
E	2.4	18.6	5.4	.1	.0	.0	26.5	8.1	17.4	26.0	31.3	39.6	33.3	26.6	31.3	13.9		
SE	2.3	23.7	6.4	.1	.0	.0	32.5	8.2	36.4	33.5	28.6	23.6	27.5	39.5	30.1	37.0		
S	1.8	11.5	2.9	.0	.0	.0	16.3	7.9	32.7	14.0	13.5	6.1	7.5	14.0	10.0	26.6		
SW	.5	4.2	1.7	.0	.0	.0	6.3	8.4	6.5	4.0	4.9	1.1	2.8	6.1	7.5	13.9		
W	.5	1.0	.2	.0	.0	.0	1.7	6.7	1.2	2.0	4.9	2.1	2.0	1.2	.7	.9		
NW	.3	1.3	.1	.0	.0	.0	1.6	7.1	.7	2.0	2.0	3.6	2.5	.6	2.9	.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.5						4.5	.0	2.7	3.0	7.9	2.9	5.0	5.3	6.8	4.2		
TOT OBS	170	783	201	3	0	0	1157		7.5		149	100	76	140	202	171	103	
TOT PCT	14.7	67.7	17.4	.3	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.1	.5	.0	.0	.0	2.6	4.6	1.6	4.1	3.6	1.3	
NE	4.7	3.2	.1	.0	.0	8.0	6.4	6.0	12.0	10.1	4.3	
E	11.4	13.8	1.3	.0	.0	26.5	8.1	20.9	36.7	30.2	19.5	
SE	13.1	18.2	1.3	.0	.0	32.5	8.2	35.2	25.3	33.0	34.8	
S	6.6	9.0	.7	.0	.0	16.3	7.9	23.2	8.7	10.5	21.2	
SW	2.8	3.1	.4	.0	.0	6.3	8.4	5.3	2.4	4.4	11.8	
W	1.0	.7	.0	.0	.0	1.7	6.7	1.3	3.1	1.6	.9	
NW	.7	1.0	.0	.0	.0	1.6	7.1	1.2	3.0	1.6	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5					4.5	.0	2.8	4.6	5.1	5.0	
TOT OBS	541	572	44	0	1157		7.5	249	216	373	319	
TOT PCT	46.8	49.4	3.8	.0	.0		100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

OCTOBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.8	11.2	67.1	18.5	.4	.0	.0	7.7	100.0	249
0600	4.6	13.0	66.7	15.3	.5	.0	.0	7.1	100.0	216
1200	5.1	11.5	65.7	17.7	.0	.0	.0	7.3	100.0	373
1800	5.0	6.0	71.2	17.6	.3	.0	.0	7.7	100.0	319
TOT	92	118	783	201	3	0	0	7.5		1157
PCT	4.5	10.2	67.7	17.4	.3	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.8	.6	.6	.0		3.3
NE	1.0	1.0	1.2	.8		4.6
E	14.3	7.9	10.3	3.7		3.7
SE	17.4	12.4	7.8	1.0		2.8
S	1.9	1.4	1.2	.8		3.3
SW	.2	.0	1.0	1.0		6.3
W	.8	.8	2.9	.6		5.1
NW	.0	.8	1.6	1.6		6.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	1.6	.8		5.5
TOT OBS	48	32	36	13	129	3.6
TOT PCT	37.2	24.8	27.9	10.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1200	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	2.9	
E	.0	.0	.0	.0	2.5	1.6	.0	.0	.0	.0	32.6	
SE	.0	.0	.0	1.6	2.3	1.6	.0	.0	.0	.0	33.7	
S	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	3.9	
SW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.6	1.6	.0	.0	.0	.0	.0	2.9	
NW	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.3	
TOT OBS	0	0	0	5	12	5	0	0	0	0	107	129
TOT PCT	.0	.0	.0	3.9	9.3	3.9	.0	.0	.0	.0	82.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
NH >6500	.0	.0	.0	.0	.0	.0	.0	.0
NH >5000	.0	.0	.0	.0	.0	.0	.0	.0
NH >3500	.0	.0	.0	.0	.0	.0	.0	.0
NH >2000	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
NH >1000	10.6	12.9	12.9	12.9	12.9	12.9	12.9	12.9
NH >600	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
NH >300	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
NH >150	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
NH >0	13.6	16.7	17.4	17.4	17.4	17.4	17.4	17.4
TOTAL	18	22	23	23	23	23	23	23

TOTAL NUMBER OF OBS: 132

PCT FREQ NH <5/8: 82.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	19.0	14.3	20.4	15.6	10.2	7.5	2.0	3.4	5.4	.0	147

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972

OCTOBER

AREA 0013 SOUTHEAST JAVA SEA
6.45 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.5	.0	.0	.0	.0	.8	
	TOT %	.1	.1	.0	.0	.0	.5	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.4	.0	.5	1.3	.0	.0	.0	.8	3.2	
	TOT %	.0	.1	.4	.0	.5	1.3	.0	.0	.0	.8	3.2	
2<5	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.3	.2	.8	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.3	.2	.8	.0	.3	.0	.0	.0	.0	1.6	
5<10	PCP	.0	.0	.3	.8	.5	.3	.0	.3	.0	.0	2.1	
	NO PCP	1.2	2.2	7.1	8.9	6.7	2.9	.9	1.1	.0	.8	31.1	
	TOT %	1.2	2.2	7.4	9.7	7.2	2.8	.9	1.3	.0	.8	33.2	
10+	PCP	.0	.0	.7	.1	.0	.1	.2	.0	.0	.0	1.1	
	NO PCP	1.8	3.4	21.0	21.8	5.0	1.9	2.4	1.8	.0	1.3	60.0	
	TOT %	1.8	3.4	21.7	21.8	5.0	2.0	2.6	1.8	.0	1.3	61.1	
TOT OBS													380
TOT PCT		3.0	6.5	29.7	32.4	12.8	6.4	9.1	2.9	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.3	.0	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.4	.7	
	4-10	.0	.1	.2	.0	.4	.3	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.0	.6	.7	.0	.0	.0	.4	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
	4-10	.0	.2	.2	.4	.0	.1	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.4	.0	.1	.0	.1	.0	.1	1.3	
5<10	0-3	.1	.2	.3	.3	.4	.1	.0	.0	.0	.4	2.0	
	4-10	.5	1.0	3.0	4.1	3.1	.9	.1	.7	.0	.0	13.6	
	11-21	.0	.0	1.3	1.7	.8	.6	.1	.0	.0	.0	4.5	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.6	1.3	4.8	6.2	4.3	1.6	.3	.7	.0	.4	20.1	
10+	0-3	.6	1.0	2.0	1.7	1.0	.2	.5	.1	.0	3.6	10.9	
	4-10	.9	3.3	15.2	18.7	7.8	2.6	1.0	.8	.0	.0	50.5	
	11-21	.0	.5	4.4	5.0	2.4	1.3	.1	.1	.0	.0	14.0	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	1.6	4.9	21.7	25.6	11.3	4.2	1.7	1.0	.0	3.6	75.7	
TOT OBS													719
TOT PCT		2.3	6.6	27.0	32.4	16.2	6.9	2.0	1.9	.0	4.6	100.0	

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.1	8.1	2.7	.0	.0	.0	.0	18.9	81.1	37
06009	.0	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	21.4	78.6	29
12015	.0	.0	.0	2.5	2.5	.0	.0	.0	.0	.0	5.0	95.0	40
18021	.0	.0	.0	5.3	10.5	5.3	.0	.0	.0	.0	21.1	78.9	38
TOT	0	0	0	6	12	5	0	0	0	0	23	120	143
PCT	.0	.0	.0	4.2	8.4	3.5	.0	.0	.0	.0	16.1	83.9	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.6	.6	5.1	1.3	16.6	75.8	157
06009	.7	.7	2.2	.0	24.3	72.1	136
12015	.4	.4	1.2	1.6	21.0	75.3	243
18021	.5	.5	3.3	1.4	26.2	68.2	214
TOT	4	4	21	9	166	546	750
PCT	.5	.5	2.8	1.2	22.1	72.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	8.8	11.8	79.4	34
06009	.0	.0	.0	22.2	77.8	27
12015	.0	.0	10.8	2.7	86.5	37
18021	.0	.0	5.9	17.6	76.5	34
TOT	0	0	9	17	106	132
PCT	.0	.0	6.8	12.9	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	1.6	3.1	7.4	1.9	.0	36	14.0
80/84	.0	.0	.0	4.3	35.7	33.7	5.0	.0	203	78.7
75/79	.0	.0	.0	.0	.0	1.2	4.3	1.6	18	7.0
TOTAL	0	0	0	5	19	114	103	17	258	100.0
PCT	.0	.0	.0	1.9	7.4	44.2	39.9	6.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
.2	.8	5.3	3.9	1.1	.8	.8	.8	.0	.4
3.1	3.4	21.7	27.0	10.0	7.0	1.5	1.6	.0	3.5
.0	.4	1.1	1.3	2.7	1.3	.3	.0	.0	.0
3.3	4.6	28.1	32.2	13.8	9.1	2.8	2.3	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	86	82	79	76	72	82.5	250
06009	91	90	88	84	80	78	75	84.0	210
12015	89	86	85	82	79	78	77	82.2	373
18021	87	85	83	81	78	76	74	81.2	322
TOT	91	88	86	82	79	77	72	82.3	1155

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	12.5	45.3	34.4	6.3	78	64		
06009	.0	6.5	17.7	43.2	30.6	.0	74	62		
12015	.0	1.3	3.9	38.8	44.7	13.2	80	76		
18021	.0	.0	.0	43.8	49.4	6.7	81	89		
TOT	0	6	22	124	119	20	79	291		

OCTOBER

PERIOD: (PRIMARY) 1917-1972
(OVER-ALL) 1857-1972AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	#0 FOG
7/8	.0	.0	.0	.0	.3	.6	3	.0	.9
8	.0	.0	.0	.0	.3	.3	2	.0	.6
9	.0	.0	.0	.0	1.2	.0	4	.0	1.2
4	.0	.0	.0	.6	1.2	.3	7	.0	2.1
3	.0	.0	.3	1.5	.9	.0	9	.0	2.8
2	.0	.0	.0	7.0	2.4	.3	32	.3	9.5
1	.0	.0	.3	8.0	2.4	.0	35	.6	10.1
0	.0	.0	2.1	26.6	1.2	.0	98	.6	29.4
-1	.0	.0	1.8	8.9	.0	.0	37	.3	11.0
-2	.0	.0	4.9	11.6	.9	.0	57	.6	16.8
-3	.0	.0	2.1	3.1	.0	.0	17	.0	5.2
-4	.0	.0	1.8	2.4	.0	.0	14	.0	4.3
-5	.0	.3	.9	.6	.0	.0	6	.0	1.8
-6	.0	.3	.0	.6	.0	.0	3	.3	.6
-7/-8	.0	.0	.3	.9	.0	.0	2	.3	.3
-11/-13	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	2	48	233	38	5	327	10	317
PCT	.3	.6	14.7	71.3	11.6	1.5	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	2.9	.3	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	2.9	.3	.0	.0	.0	3.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
1-2	2.6	15.4	1.9	.0	.0	.0	19.9	.0	17.0	4.2	.0	.0	.0	21.2
3-4	.0	2.2	9.0	.0	.0	.0	11.2	.0	4.2	6.4	.0	.0	.0	10.6
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	17.6	17.6	.0	.0	.0	37.8	.0	22.4	15.4	1.3	.0	.0	39.1

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.3	.0	.0	.0	.0	.0		1.3	.0	.0	.0	.0	.0	.0		.0
1-2	.0	2.9	3.8	.0	.0	.0		6.7	.0	2.2	.0	.0	.0	.0		2.2
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.3	.0	.0	.0		1.3
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.3	2.9	3.8	.0	.0	.0		8.0	.0	2.2	1.3	.0	.0	.0		4.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
1-2	1.3	3.2	.0	.0	.0	.0		4.5	.0	1.3	.0	.0	.0	.0		1.3	1.3
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	1.3	3.2	.0	.0	.0	.0		4.5	.0	1.3	.0	.0	.0	.0		1.3	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.6	1.3	.0	.0	.0	.0	3.8	
1-2	3.8	46.2	10.3	.0	.0	.0	60.3	
3-4	.0	6.4	16.7	.0	.0	.0	23.1	
5-6	.0	.0	10.3	.0	.0	.0	10.3	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	53.8	38.5	1.3	.0	.0	100.0	78

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	36.4	11.0	9.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	3
6-7	.0	.0	7.6	4.2	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
8-9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1
INDET	4.8	5.9	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	1
TOTAL	15	52	25	19	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	118	3
PCT	12.7	44.1	21.2	16.1	5.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	9.5	3.8	.0	.0	.0	86.7
NE	1.9	7.5	.0	.0	.0	.0	.0	9.4	.9	9.4	.0	.0	3.8	.0	78.3
E	.0	3.9	.0	.0	.0	.0	.0	3.9	1.5	2.0	2.0	.0	2.9	.0	87.8
SE	1.6	1.6	.0	.0	.0	.0	.0	3.1	.0	5.0	.0	.0	5.8	.0	87.8
S	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	6.1	.0	.0	3.4	.0	87.8
SW	6.1	.7	2.7	.0	.0	.0	.0	9.5	.0	6.1	1.4	.0	6.8	.0	77.0
W	7.1	2.1	.0	.0	.0	.0	.0	9.3	.0	10.7	1.4	.0	11.4	.0	69.3
NW	7.9	.0	.0	.0	.0	.0	.0	7.9	.0	15.8	.0	.0	.0	.0	76.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	96.8
TOT PCT	3.3	1.8	.7	.0	.0	.0	.0	5.3	.3	6.8	.9	.0	4.2	.0	83.7
TOT OBS:	337														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.8	3.8	1.3	.0	.0	.0	.0	8.8	.0	1.3	.0	.0	7.5	.0	82.5
06009	3.5	2.2	.0	.0	.0	.0	.0	5.8	1.2	2.3	2.3	.0	3.5	.0	86.0
12015	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	9.2	2.0	.0	3.1	.0	84.7
18021	5.9	2.0	.0	.0	.0	.0	.0	7.9	.0	14.9	.0	.0	4.0	.0	76.2
TOT PCT	3.3	2.2	.3	.0	.0	.0	.0	5.8	.3	7.4	1.1	.0	4.4	.0	82.2
TOT OBS:	365														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	3.1	.4	.0	.0	.0		5.0	5.5	.7	8.5	3.2	9.9	5.9	2.2	4.3	3.8	
NE	2.1	5.0	.3	.1	.0	.0		7.5	5.7	2.4	10.5	4.2	17.4	13.4	3.9	2.3	2.8	
E	2.7	14.4	1.5	.1	.0	.0		18.7	6.8	12.8	20.5	23.9	22.4	25.5	20.2	17.0	9.7	
SE	3.4	14.4	1.7	.2	.0	.0		19.6	6.7	26.2	17.5	19.7	13.8	14.9	23.6	17.5	22.4	
S	3.3	7.7	1.4	.0	.0	.0		12.5	6.0	18.2	8.0	7.3	9.9	6.5	14.9	9.8	22.9	
SW	2.9	7.0	.8	.0	.0	.0		10.6	5.8	18.4	4.5	11.2	5.3	5.2	13.2	12.6	14.2	
W	1.4	5.3	1.0	.0	.0	.0		7.7	6.7	10.1	7.0	8.4	5.6	5.9	6.5	11.5	9.0	
NW	1.1	5.7	.4	.0	.0	.0		7.2	5.9	2.1	11.5	10.1	11.2	7.0	3.7	11.2	5.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	11.3							11.3	.0	9.0	12.0	9.0	8.6	15.6	11.8	14.8	9.4	
TOT OBS	447	733	88	5	0	0	1173		5.6	144	100	89	132	211	178	87	212	
TOT PCT	29.6	62.5	7.5	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	09	15
N	3.8	1.0	.2	.0	.0	.0		5.0	5.5	3.9	8.5	4.2	3.9
NE	5.4	1.9	.2	.0	.0	.0		7.5	5.7	5.7	12.6	9.1	2.7
E	10.1	8.2	.3	.0	.0	.0		18.7	6.8	16.0	22.9	23.1	11.8
SE	11.6	7.2	.6	.1	.0	.0		19.6	6.7	22.6	16.0	18.9	21.0
S	8.6	3.6	.3	.0	.0	.0		12.5	6.0	14.0	6.4	10.3	19.1
SW	7.5	2.7	.4	.0	.0	.0		10.6	5.8	12.7	7.5	8.9	13.7
W	4.3	3.2	.2	.0	.0	.0		7.7	6.7	8.8	6.6	6.2	9.7
NW	5.0	2.1	.0	.0	.0	.0		7.2	5.9	5.9	10.8	5.5	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.3							11.3	.0	10.2	8.7	13.9	10.7
TOT OBS	793	354	25	1	0	1173		244	5.6	244	241	389	299
TOT PCT	67.6	30.2	2.1	.1	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1958-1971

NOVEMBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT	TOTAL
				11-21	22-33	34-47				FREQ	OBS
00003	10.2	23.4	56.1	7.8	.4	.0	.0	.0	5.6	100.0	244
06009	8.7	15.4	66.8	7.1	.0	.0	.0	.0	6.0	100.0	241
12015	13.9	18.8	61.7	4.9	.8	.0	.0	.0	5.2	100.0	389
18021	10.7	16.1	65.2	7.7	.3	.0	.0	.0	5.7	100.0	239
TOT	132	215	733	88	5	0	0	0	5.6		1173
PCT	11.3	18.3	2.5	7.5	.4	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	1.6	.9		4.8
NE	.0	.9	.2	1.2		5.7
E	3.0	5.4	2.8	.7		3.7
SE	9.6	4.9	2.8	2.3		3.7
S	5.4	3.5	.0	2.3		3.7
SW	1.6	3.0	4.9	4.2		5.7
W	.7	2.6	6.1	2.1		5.5
NW	1.4	1.4	4.0	.2		4.4
CALM	.0	.0	.0	.0		.0
TOT OBS	31	31	29	16	107	4.1
TOT PCT	29.0	29.0	27.1	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8 AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY HGT	<5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
E	.0	.0	.0	.7	.9	.0	.0	.0	.0	.0	.0	.0	10.3
SE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	19.2
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	9.8
SW	.0	.0	.9	.9	2.3	.9	.0	.0	.0	.0	.0	.0	8.6
W	.0	.0	.0	.7	1.4	.9	.0	.0	.0	.0	.0	.0	8.4
NW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	6.8
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	1	3	7	2	0	0	1	0	93	107	
TOT PCT	.0	.0	.9	2.8	6.5	1.9	.0	.0	.9	.0	86.9	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.9	.9	.9	.9	.9	.9	.9
>5000	.0	.9	.9	.9	.9	.9	.9	.9
>3500	.0	.9	.9	.9	.9	.9	.9	.9
>2000	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>1000	6.3	8.9	9.8	9.8	9.8	9.8	9.8	9.8
>500	7.1	12.3	13.4	13.4	13.4	13.4	13.4	13.4
>300	7.1	12.3	14.3	14.3	14.3	14.3	14.3	14.3
>150	7.1	12.3	14.3	14.3	14.3	14.3	14.3	14.3
>0	7.1	12.3	14.3	14.3	14.3	14.3	14.3	14.3
TOTAL	8	14	16	16	16	16	16	16

TOTAL NUMBER OF OBS: 112

PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.9	23.4	25.8	15.3	7.3	3.7	4.0	3.2	4.8	.0	124

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

NOVEMBER

AREA 0013 SOUTHEAST JAVA SEA
6.2S 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.3	.4	1.0	.1	.7	1.5	.0	.0	.0	.0	4.2
	TOT %	.0	.3	.4	1.0	.1	.7	1.5	.0	.0	.0	.0	4.2
2<5	PCP	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.6
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.6
5<10	PCP	.1	.7	.6	.3	.0	.3	.5	.7	.0	.0	.0	3.9
	NO PCP	3.0	3.3	6.4	6.5	3.9	3.8	2.2	3.3	.0	.0	2.1	34.4
	TOT %	3.2	4.0	7.0	6.8	4.5	4.3	2.7	3.9	.0	.0	2.1	38.3
10+	PCP	.0	.0	.0	.3	.0	.4	.2	.0	.0	.0	.0	.9
	NO PCP	4.6	3.6	7.8	11.0	6.4	5.3	5.8	4.5	.0	.0	7.1	56.1
	TOT %	4.6	3.6	7.8	11.3	6.4	5.7	6.0	4.5	.0	.0	7.1	57.0
TOT OBS													337
TOT PCT		7.8	7.9	15.2	19.1	11.0	11.0	10.4	8.5	.0	9.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3
	4-10	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.1	.2	.3	.1	.0	.0	.0	.0	.9
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.4
	4-10	.0	.0	.1	.3	.0	.2	.4	.0	.0	.0	.0	1.0
	11-21	.0	.1	.1	.0	.1	.1	.2	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.3	.6	.1	.4	.7	.0	.0	.0	.0	2.1
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.1	.1	.1	.2	.1	.0	.0	.0	.0	.9
5<10	0-3	.1	.4	.4	.5	.1	.3	.0	.3	.0	2.1	.0	4.3
	4-10	1.5	1.5	3.0	3.2	1.9	1.9	1.4	1.5	.0	.0	.0	15.9
	11-21	.1	.1	.3	.4	.3	.1	.1	.2	.0	.0	.0	1.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.7	2.1	3.8	4.0	2.3	2.3	1.5	2.0	.0	2.1	.0	21.7
10+	0-3	1.3	1.6	1.6	2.5	3.0	1.9	1.3	.5	.0	9.6	.0	23.4
	4-10	2.0	3.7	5.6	11.6	6.0	5.2	3.8	4.0	.0	.0	.0	46.1
	11-21	.4	.1	1.1	1.6	.7	.6	.4	.0	.0	.0	.0	5.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	3.8	5.4	12.5	15.7	9.7	7.7	5.6	1.5	.0	9.6	.0	74.5
TOT OBS													705
TOT PCT		5.5	7.9	16.8	20.4	12.3	10.9	7.9	6.5	.0	11.8	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

AREA 0013 SOUTH EAST JAVA SEA
6.25 112.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.0	.0	8.0	4.0	.0	.0	4.0	.0	20.0	80.0	25
06009	.0	.0	.0	8.8	.0	2.9	.0	.0	.0	.0	11.8	88.2	34
12015	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	11.5	88.5	26
18021	.0	.0	.0	2.8	8.3	.0	.0	.0	.0	.0	11.1	88.9	36
TOT	0	0	1	4	8	2	0	0	1	0	16	105	121
PCT	.0	.0	.8	3.3	6.6	1.7	.0	.0	.8	.0	13.2	86.8	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1.2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.0	3.4	.7	22.3	72.7	139
06009	1.4	.0	2.0	.7	27.0	68.9	148
12015	.4	.0	2.0	.6	22.1	75.4	236
18021	.5	.0	2.1	1.1	26.3	70.0	190
TOT	6	0	17	6	175	529	733
PCT	.8	.0	2.3	.8	23.9	72.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.0	4.0	16.0	80.0	25
06009	.0	.0	9.7	3.2	87.1	31
12015	.0	.0	4.0	8.0	88.0	25
18021	.0	.0	3.2	9.7	87.1	31
TOT	0	1	6	10	96	112
PCT	.0	.9	5.4	8.9	85.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT REQ
90/94	.0	.0	.0	.5	.0	1.4	.0	.0	4	1.9
85/89	.0	.0	.0	.0	3.7	11.6	4.7	.5	44	20.5
80/84	.0	.0	.0	.0	2.8	35.3	29.8	5.6	158	73.5
75/79	.0	.0	.0	.0	.0	1.4	2.8	.9	9	4.2
TOTAL	0	0	0	1	14	104	77	19	215	100.0
PCT	.0	.0	.0	.5	6.5	48.4	35.8	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.9	.0	.5	.0	.0	.5	.0	.0
85	2.2	1.6	4.9	2.9	2.0	.2	1.4	2.4	.0	2.8
80	4.3	3.7	10.3	17.7	7.7	9.0	8.3	4.2	.0	6.4
75	.5	.9	.0	.5	.5	1.0	.3	.5	.0	.0
70	7.0	6.3	16.2	21.0	10.6	10.2	10.0	7.6	.0	11.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	91	88	83	79	77	75	83.1	246
06009	93	91	89	84	78	75	74	84.1	243
12015	91	87	86	83	81	79	77	83.1	397
18021	93	90	84	82	79	77	75	82.0	307
TOT	93	90	87	83	79	77	74	83.0	1193

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.1	14.2	35.4	8.3	79	48		
06009	.0	1.7	10.3	38.6	20.7	3.6	76	58		
12015	.0	.0	7.8	43.8	43.8	4.7	79	64		
18021	.0	.0	4.3	35.7	47.1	12.9	81	70		
TOT	0	1	13	113	90	21	79	240		

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1858-1971

NOVEMBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	73	77	81	85	89	TOT	N FOG	NJ FOG
5	.0	.0	.4	1.5	.0	5	.0	1.8
4	.0	.0	.4	1.5	1.5	9	.0	3.3
3	.0	.0	.0	1.5	.0	4	.0	1.5
2	.0	.0	1.8	2.2	.7	13	.0	4.7
1	.0	.0	5.1	3.3	.0	23	.4	8.0
0	.0	.7	18.6	4.0	.0	64	1.1	22.3
-1	.0	1.1	18.1	3.3	.0	56	.0	20.4
-2	.0	1.1	15.0	.4	.0	45	.0	16.4
-3	.0	1.1	4.4	.0	.0	15	.0	5.5
-4	.0	1.5	0.9	.0	.0	23	.0	4.4
-5	.0	2.2	1.1	.0	.0	9	.0	3.3
-7/-8	.4	1.1	.4	.0	.0	5	.0	1.0
-9/-10	.4	.7	.0	.0	.0	3	.0	1.0
TOTAL	2	26	19.4	4.9	6	274	4	270
PCT	.7	9.5	70.1	17.5	2.2	100.0	1.4	98.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.7	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	.0	.0	.0	.0	.0	1.7	.6	2.8	.0	.0	.0	.0	3.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.7	6.7	2.2	.0	.0	.0	.0	8.9
1-2	.0	7.8	.0	.0	.0	.0	7.8	2.7	10.6	.0	.0	.0	.0	12.8
3-4	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	5.6	.0	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	6.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	3.3	.0	.0	.0	13.3	8.9	12.8	12.2	.0	.0	.0	33.9

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
1-2	2.2	3.3	.0	.0	.0	.0	5.6	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.4	3.3	.0	.0	.0	.0	7.6	.0	2.2	.0	.0	.0	.0	2.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.0	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	2.2	.0
3-4	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	3.9	.0	.0	.0	8.3	.0	2.2	.0	.0	.0	.0	2.9	73.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	33.3	6.7	.0	.0	.0	.0	40.0	.0
1-2	6.9	28.9	.0	.0	.0	.0	35.8	.0
3-4	.0	2.2	13.3	.0	.0	.0	15.5	.0
5-6	.0	.0	6.7	.0	.0	.0	6.7	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	40.2	37.8	20.0	.0	.0	.0	104.0	45

PERIOD: (OVER-ALL) 1969-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	16.9	34.5	10.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
1-2	2.2	.0	2.2	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
3-4	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
5-6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	21.8	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	34	92	12	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
TOTAL	39.1	36.8	13.8	6.9	4.3	1.1	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87
PCT	39.1	36.8	13.8	6.9	4.3	1.1	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1871-1972

DECEMBER

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.04

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG	FUG WD	SMOKE	SPRAY	NO SIG
N	10.0	4.0	.0	.0	.0	.0	.0	20.0	.0	4.0	.0	.0	8.0	.0	72.0
NE	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	3.5	10.5	.0	.0	.0	80.0
E	7.4	3.7	.0	.0	.0	.0	.0	11.1	.0	14.8	7.4	.0	.0	.0	74.1
SE	11.8	1.7	.0	.0	.0	.0	.0	13.4	.0	6.7	5.0	.0	.0	.0	74.8
S	5.9	4.7	.0	.0	.0	.0	.0	10.6	4.7	.0	.0	.0	.0	.0	84.7
SW	11.8	2.8	.7	.0	.0	.0	.0	15.3	.0	9.0	.0	.0	.0	.0	70.3
W	8.0	8.7	2.3	.0	.0	.0	.0	19.0	1.3	5.7	1.3	.0	.0	.0	74.0
NW	4.3	3.4	.0	.0	.0	.0	.0	7.7	1.7	9.4	1.7	.0	.0	.0	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	7.6	4.3	.7	.0	.0	.0	.0	12.6	1.1	6.5	2.2	.0	.4	.0	79.1
TOT OBS	278														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG	FUG WD	SMOKE	SPRAY	NO SIG
00003	4.3	2.9	2.9	.0	.0	.0	.0	10.0	.0	.0	.0	.0	2.9	.0	87.1
06009	2.7	7.2	2.9	.0	.0	.0	.0	13.0	.0	1.4	2.9	.0	.0	.0	92.0
12015	8.9	4.0	.0	.0	.0	.0	.0	12.9	.0	8.9	4.0	.0	1.0	.0	77.2
18021	16.0	2.7	1.3	.0	.0	.0	.0	20.0	4.0	16.0	2.7	.0	.0	.0	60.0
TOT PCT	8.3	4.1	1.6	.0	.0	.0	.0	14.0	1.0	7.0	2.5	.0	1.0	.0	76.5
TOT OBS	315														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	2.6	.4	.0	.0	.0		4.1	6.0		2.9	7.0	4.1	6.9	6.9	1.9	2.1	.0
NE	1.8	2.6	.0	.0	.0	.0		4.4	4.3		.0	7.0	4.1	4.9	5.7	4.6	5.7	1.6
E	2.2	3.3	.3	.0	.0	.0		5.7	4.8		2.9	4.4	4.9	8.8	10.8	6.7	2.6	3.2
SE	2.2	6.4	.5	.0	.0	.0		9.1	5.3		11.5	7.9	4.0	6.9	8.1	7.7	12.5	13.7
S	7.8	5.2	.8	.0	.0	.0		8.9	6.0		18.4	16.7	11.1	4.9	1.0	5.8	5.2	8.9
SW	1.9	9.7	2.4	.3	.1	.0		14.4	7.9		23.8	8.8	16.0	2.9	11.4	9.6	18.2	23.4
W	2.6	19.9	7.1	1.7	.5	.0		26.8	10.5		23.8	21.9	20.6	22.5	24.2	34.6	27.1	32.3
NW	2.4	1.5	3.2	1.2	.4	.0		18.7	9.7		14.3	12.3	16.0	32.4	20.5	19.2	22.4	13.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0		4.9	14.0	11.5	7.8	7.2	9.6	4.2	3.2
TOT OBS	118	267	70	15	5	0	475				61	57	61	51	83	57	48	82
TOT PCT	24.8	54.2	14.7	3.2	1.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	12	18
N	2.8	1.1	.2	.0	.0				4.9	5.4	5.0	.9	
NE	3.7	.7	.0	.0	.0				3.4	5.4	5.4	3.4	
E	4.7	1.0	.0	.0	.0				3.4	6.7	9.3	3.0	
SE	7.2	1.9	.0	.0	.0				9.7	5.8	8.0	13.2	
S	5.7	2.7	.4	.0	.0				8.9	6.0	16.5	4.1	7.3
SW	7.3	6.0	1.1	.1	.0				14.4	7.9	16.5	10.0	21.1
W	8.7	14.8	2.0	.9	.4				26.8	10.5	22.9	24.8	30.0
NW	7.6	8.3	2.7	.4	.2				18.7	9.7	13.3	23.9	17.5
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0
CALM	7.8								7.5	.0	9.3	9.8	4.1
TOT OBS	264	173	28	7	2	475			118	112	135	110	
TOT PCT	55.6	36.4	5.9	1.5	.6				100.0		100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1875-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MLAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	9.3	23.7	53.4	8.5	4.2	.8	.0	6.8	100.0	110
06009	9.8	16.1	51.8	17.9	2.7	1.8	.0	7.9	100.0	112
12015	8.1	14.1	55.6	19.3	3.0	.0	.0	7.3	100.0	135
18021	3.6	14.5	64.5	12.7	2.7	1.8	.0	8.1	100.0	110
TOT	37	81	267	70	15	5	0	7.5		475
PCT	7.8	17.1	56.2	14.7	3.2	1.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	2.0	1.2	.9	1.2		3.8
NE	.0	1.2	2.6	2.3		6.3
E	.0	.0	3.8	.0		5.4
SE	3.5	.0	2.9	1.2		4.3
S	.0	.0	2.0	3.5		7.4
SW	1.2	.0	5.8	4.7		6.5
W	4.0	1.7	14.5	8.7		6.3
NW	.6	6.4	7.0	9.9		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.2	3.5	2.3	2.3		4.3
TOT OBS	9	12	36	29	86	5.8
TOT PCT	10.5	14.0	41.4	33.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	4.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.6	
.0	.0	.0	1.2	.0	2.3	.0	.0	.0	.0	4.1	
.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	2.3	
.0	.0	1.2	1.2	.3	2.3	.0	.0	.0	.0	6.7	
.0	.0	.0	2.3	5.5	5.2	.0	.0	.0	.0	14.0	
.0	.0	.0	1.2	2.6	1.7	.0	.0	.0	.0	18.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.2	2.3	.0	.0	.0	.0	5.8	
0	0	1	5	13	10	2	0	1	0	34	86
.0	.0	1.2	5.8	15.1	11.6	2.3	.0	1.2	.3	62.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>2000	12.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3
>1000	23.1	28.6	29.7	29.7	29.7	29.7	29.7	29.7
>600	26.4	33.0	35.2	35.2	35.2	35.2	35.2	35.2
>300	26.4	33.0	35.2	35.2	36.3	36.3	36.3	36.3
>150	26.4	34.1	36.3	36.3	37.4	37.4	37.4	37.4
>0	26.4	34.1	36.3	36.3	37.4	37.4	37.4	37.4
TOTAL	24	31	33	33	34	3	34	34

TOTAL NUMBER OF OBS: 91

PCT FREQ NH <5/8: 62.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.6	17.8	15.9	12.1	13.1	8.4	12.1	2.8	12.1	.0	107

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1874-1972

DECEMBER

AREA 0019 SOUTHEAST JAVA SEA
6.25 112.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7	
	TOT %	.4	.0	.0	.0	.0	.4	.4	.4	.0	.0	1.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4	
5<10	PCP	.5	.2	.4	.9	.8	1.2	2.9	.7	.0	.0	7.6	
	NO PCP	.9	1.4	1.4	3.1	1.6	2.3	5.2	6.3	.0	1.1	23.4	
	TOT %	1.4	1.6	1.8	4.0	2.4	3.5	8.1	7.0	.0	1.1	30.9	
10+	PCP	.0	.1	.2	.5	.0	.4	1.9	.9	.0	.0	4.0	
	NO PCP	2.3	3.2	2.5	6.2	5.2	8.6	15.2	12.1	.0	5.0	61.2	
	TOT %	2.3	3.3	2.7	6.7	5.2	9.0	17.1	13.0	.0	5.0	65.1	
TOT OBS													278
TOT PCT		4.5	5.1	4.9	10.7	7.6	12.9	27.0	21.1	.0	6.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.7	
	4-10	.0	.0	.0	.0	.0	.7	1.4	.0	.0	.0	2.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.3	.0	.0	.7	1.4	.0	.0	.3	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	4-10	.3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.3	.0	.0	.0	.0	.3	.7	.3	.0	.0	1.7	
1<2	0-3	.3	.1	.3	.0	.0	.0	.3	.0	.0	.0	1.0	
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.3	.0	.0	.3	.3	.7	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.2	1.4	.3	.0	.0	2.0	
5<10	0-3	.0	.5	.5	1.0	.7	.0	.0	.3	.0	1.0	4.1	
	4-10	1.4	1.0	1.2	2.7	.9	2.3	4.4	5.4	.0	.0	19.3	
	11-21	.0	.0	.0	.0	.7	1.0	2.9	.8	.0	.0	5.4	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	1.4	1.5	1.7	3.7	2.3	3.3	7.6	6.6	.0	1.0	29.2	
10+	0-3	.9	.7	.7	.8	1.2	2.0	1.8	2.4	.0	4.7	15.3	
	4-10	1.3	2.6	1.7	4.7	3.4	5.3	11.2	7.9	.0	.0	38.0	
	11-21	.0	.0	.5	.8	.3	1.3	3.3	1.5	.0	.0	7.8	
	22+	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.0	
	TOT %	2.2	3.3	2.9	6.4	4.9	8.6	16.6	12.5	.0	4.7	62.0	
TOT OBS													295
TOT PCT		4.6	4.9	5.2	10.1	7.6	13.4	28.0	20.4	.0	6.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1875-1972

AREA 0013 SOUTHEAST JAVA SEA
0.25 112.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	3.4	3.4	6.9	13.8	3.4	6.9	.0	.0	.0	37.9	62.1	29
06009	.0	.0	.0	11.1	11.1	7.4	.0	.0	.0	.0	29.6	70.4	27
12015	.0	.0	.0	.0	11.5	23.1	.0	.0	3.8	.0	38.5	61.5	26
18021	.0	.0	.0	.0	19.0	4.8	.0	.0	.0	.0	23.8	76.2	21
TOT	0	1	1	5	14	10	2	0	1	0	34	69	103
PCT	.0	1.0	1.0	4.9	13.6	9.7	1.9	.0	1.0	.0	33.0	67.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	2.8	1.4	4.7	1.4	26.4	63.9	72
06009	2.7	1.4	.0	2.7	31.5	61.6	73
12015	2.8	2.8	3.7	1.9	34.9	50.0	108
18021	2.5	.3	.0	2.5	38.0	55.7	79
TOT	9	6	7	7	114	189	332
PCT	2.7	1.8	2.1	2.1	34.3	56.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	8.3	16.7	29.2	54.2	24
06009	.0	.0	12.0	20.0	68.0	25
12015	.0	.0	4.3	39.1	56.5	23
18021	.0	.0	.0	26.3	73.7	19
TOT	0	2	8	26	57	91
PCT	.0	2.2	8.8	28.6	62.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FRFQ
90/94	.0	.0	.0	.0	1.2	.0	.0	.0	2	1.2
85/89	.0	.0	.0	.0	1.7	9.5	2.4	.0	22	13.1
80/84	.0	.0	.0	.6	4.8	24.6	38.1	7.7	134	79.8
75/79	.0	.0	.0	.0	.0	3.6	2.4	.0	10	6.0
TOTAL	0	0	0	1	12	64	74	17	168	170.0
PCT	.0	.0	.0	.6	7.1	38.1	44.0	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0
85/89	.0	1.8	2.2	1.3	2.4	.0	1.5	3.9	.0	.0
80/84	5.7	2.2	2.8	8.3	4.9	14.1	18.9	10.8	.0	6.0
75/79	.0	.0	.6	1.2	.6	1.5	1.5	.6	.0	.0
TOTAL	5.7	4.0	5.7	10.9	7.9	15.8	22.3	21.9	.0	6.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	94	90	83	79	76	75	83.3	124
06009	92	91	90	84	79	75	75	82.7	116
12015	86	85	85	82	79	77	77	82.3	149
18021	85	84	84	81	78	76	75	81.1	119
TOT	95	91	87	82	79	76	75	82.5	508

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.5	50.0	31.8	13.6	80			44
06009	.0	2.1	14.6	41.7	31.3	10.4	77			48
12015	.0	.0	5.9	29.4	50.0	14.7	81			98
18021	.0	2.3	.0	20.9	65.1	11.6	83			41
TOT	0	2	13	71	91	26	81			203

DECEMBER

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1875-1972

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FDG	NO FDG
9/10	.0	.0	.0	.0	.4	1	.0	.4
7/9	.0	.0	.0	.8	.0	2	.0	.8
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.4	.0	.0	1	.0	.4
4	.0	.0	.4	.4	.0	2	.0	.8
3	.0	.0	1.2	1.6	.4	8	.0	3.1
2	.0	.0	1.2	3.1	.4	12	.4	4.3
1	.0	.0	8.3	1.6	.0	25	.0	9.8
0	.0	.4	16.5	2.4	.4	50	1.2	18.5
-1	.0	.4	11.0	1.2	.0	32	.8	11.8
-2	.0	.8	19.7	1.2	.0	55	.8	20.4
-3	.0	3.1	4.7	.0	.0	20	.0	7.9
-4	.0	3.9	4.3	.0	.0	21	.0	8.3
-5	.8	2.4	3.5	.0	.0	17	.0	6.7
-6	.4	1.6	.8	.0	.0	7	.0	2.8
TOTAL	3	32	183	31	5	254	8	246
PCT	1.2	12.6	72.0	12.2	2.0	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	2.3	4.1	.0	.0	.0	.0	6.4	.0	2.9	.0	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	4.1	.0	.0	.0	.0	6.4	.0	2.9	.0	.0	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	.0	2.3	.0	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1972

DECEMBER
TABLE 18 (CONT)AREA 0013 SOUTHEAST JAVA SEA
6.25 112.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	4.7	5.2	.0	.0	.0	.0	9.9	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.6	.0	.0	.0	2.9	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	4.7	7.6	.6	2.3	.0	.0	15.1	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.7	2.3	.0	.0	.0	.0	4.1	.6	2.3	.0	.0	.0	.0	2.9	.0
1-2	.0	12.8	5.2	.0	.0	.0	18.0	4.7	1.1	1.7	.0	.0	.0	10.5	.0
3-4	.0	.0	3.5	4.7	.0	.0	8.1	.0	.0	.6	.0	.0	.0	.6	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	2.3	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	15.1	11.0	4.7	.0	.0	32.6	5.2	6.4	2.3	.0	4.7	.0	18.6	81.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.7	4.5	.0	.0	.0	.0	27.3	.0
1-2	11.4	31.8	6.8	.0	.0	.0	50.0	.0
3-4	.0	4.5	4.5	.0	.0	.0	13.6	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	2.3	.0	.0	2.3	.0
8-9	.0	.0	2.3	.0	2.3	.0	4.5	.0
10-11	.0	.0	.0	.0	2.3	.0	2.3	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	34.1	40.9	13.6	6.8	4.5	.0	100.0	44

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	14.7	42.7	12.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	2
6-7	.0	2.7	4.0	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
10-11	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	12.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	1
TOTAL	20	35	12	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	75	2
PCT	26.7	46.7	16.0	2.7	2.7	4.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

ANNUAL

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.3	1.3	.0	.0	.0	.0	.0	4.6	1.0	2.3	1.5	.0	8.0	.0	83.0
NE	2.9	1.7	.4	.0	.0	.0	.0	3.0	.2	4.1	3.1	.0	2.8	.0	85.5
E	2.0	2.7	.1	.0	.0	.0	.0	4.8	2.4	4.4	2.2	.0	1.6	.0	85.9
SE	4.0	1.8	.3	.0	.0	.0	.0	6.1	.4	2.8	1.9	.0	1.3	.1	88.2
S	6.3	1.6	.2	.0	.0	.0	.0	8.1	.4	4.5	.8	.0	2.3	.0	85.3
SW	4.2	4.2	.4	.0	.0	.0	.0	8.8	.3	2.6	2.4	.0	2.7	.0	84.3
W	3.8	3.9	1.0	.0	.0	.0	.0	8.7	1.2	5.5	5.4	.0	1.8	.0	78.0
NW	2.8	3.9	.1	.0	.0	.0	.0	6.8	.4	3.9	3.0	.0	1.1	.0	85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	1.0	.0	.0	.0	.0	2.4	.2	4.7	.7	.0	2.9	.0	89.3
TOT PCT	3.4	2.5	.4	.0	.0	.0	.0	6.2	.7	3.7	1.6	.0	1.9	.0	86.6
TOT OBS:	5071														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
00003	3.0	2.7	.6	.0	.0	.0	.0	6.2	.8	.3	1.6	.0	3.1	.0	88.1
06009	2.2	3.0	.5	.0	.0	.0	.0	3.5	1.2	.6	1.7	.0	2.5	.0	88.8
12015	3.8	1.8	.4	.0	.0	.0	.0	8.0	.2	6.4	2.2	.0	1.7	.1	84.8
18021	5.4	3.5	.5	.0	.0	.0	.0	9.4	.6	7.3	1.6	.0	1.4	.0	81.3
TOT PCT	3.7	2.6	.5	.0	.0	.0	.0	6.8	.6	3.9	1.7	.0	2.1	.0	85.0
TOT OBS:	5382														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	2.1	.2	.0	.0	.0	3.4	5.5	1.9	4.7	3.0	6.4	4.8	2.2	2.7	1.7		
NE	1.5	4.4	.8	.0	.0	.0	6.7	6.3	2.7	7.4	4.3	14.0	10.6	5.1	5.7	2.7		
E	2.0	14.2	4.6	.2	.0	.0	22.0	7.5	15.0	19.8	21.2	23.8	27.4	23.7	23.2	16.8		
SE	2.0	15.5	6.1	.2	.0	.0	23.8	7.6	30.2	23.3	27.2	17.5	19.2	25.6	21.7	26.8		
S	1.6	6.1	1.5	.1	.0	.0	9.3	7.1	15.1	9.7	7.2	4.0	5.4	9.2	7.1	14.4		
SW	1.2	4.3	.9	.1	.0	.0	6.6	7.2	9.8	4.8	6.3	2.3	4.0	6.2	7.2	11.2		
W	1.7	7.0	3.1	.4	.1	.0	12.3	7.1	13.3	17.9	13.3	10.9	10.7	12.4	13.0	13.5		
NW	1.5	5.9	2.2	.3	.0	.0	9.8	6.9	7.4	10.9	10.9	14.9	10.8	8.3	10.7	6.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.2						6.2	.0	4.6	6.4	6.5	4.2	7.1	7.4	6.6	6.1		
TOT OBS							14521	7.7	1890	1289	1126	1795	2697	2074	1238	2412		
TOT PCT	18.6	59.6	20.9	1.1	.1	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	12	18
N	2.5	.8	.1	.0	.0				3.1	5.1	3.6	2.1	
NE	4.0	2.6	.1	.0	.0				4.6	10.2	8.2	3.8	
E	7.7	13.3	1.0	.0	.0				22.0	7.5	16.9	24.0	19.6
SE	8.6	14.1	1.1	.0	.0				23.8	7.6	27.4	21.2	25.1
S	4.6	4.3	.4	.0	.0				9.3	7.1	13.0	5.3	12.0
SW	3.7	2.5	.3	.0	.0				6.6	7.2	7.7	4.0	9.8
W	5.2	5.9	1.1	.1	.0				12.3	7.1	13.1	11.9	13.3
NW	4.6	4.2	.9	.1	.0				9.8	6.9	8.8	13.2	8.2
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0
CALM	6.2								5.4	5.1	7.2	6.3	
TOT OBS						14521			3179	2921	4771	3850	
TOT PCT	47.0	47.7	4.9	.3	.1				100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1955-1973

ANNUAL

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-37	38-47				
00003	5.4	16.0	55.8	21.3	1.3	.1	.0	7.6	100.0	3179
06009	5.1	11.6	59.4	22.6	1.1	.2	.0	8.0	100.0	2921
12015	7.2	12.3	60.0	19.4	1.0	.0	.0	7.5	100.0	4771
18021	6.3	10.1	62.5	19.7	1.2	.2	.0	7.8	100.0	3650
TOT								7.7		14921
PCT	6.2	12.5	59.6	20.9	1.1	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN CLOUD COVER
N	.5	.6	.8	.7		4.2
NE	.8	1.0	1.2	.7		4.3
E	9.1	8.4	6.8	1.3		3.9
SE	12.2	8.6	5.0	2.1		3.8
S	1.7	1.1	1.4	1.0		4.9
SW	.6	.4	2.0	1.3		4.8
W	1.6	1.9	6.8	4.7		4.9
NW	1.2	1.7	4.3	2.8		4.4
VAR	.0	.0	.0	.0		.0
CAL	2.1	2.4	1.7	.6		3.6
TOT OBS					1570	4.2
TOT PCT	29.8	24.2	31.4	14.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	499	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.2	.5	.0	.1	.0	.0	.1	1.8	
.0	.0	.1	.1	.3	.1	.0	.0	.1	.0	3.0	
.0	.0	.1	.5	2.2	.4	.2	.0	.1	.1	20.0	
.0	.0	.1	1.2	1.2	.2	.3	.0	.1	.0	25.6	
.0	.0	.0	.3	.9	.3	.0	.0	.1	.1	3.6	
.0	.0	.2	.4	.3	.5	.1	.1	.0	.0	2.8	
.1	.7	.1	1.3	2.3	1.6	.1	.0	.0	.1	9.0	
.0	.1	.1	1.0	1.2	.5	.2	.0	.0	.0	7.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.4	.3	.0	.0	.1	.0	5.9	
.1	.1	.6	5.1	9.4	4.7	.9	.1	.4	.3	79.2	1570
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10		= OR >5		= OR >2		VSBY (NM)		= OR >1/2		= OR >1/4		= OR >50YD		= OR >0	
	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>
= OR >6500	.6	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >2000	5.2	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
= OR >1000	11.6	14.3	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
= OR >600	14.3	19.0	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
= OR >300	14.3	19.3	20.7	20.8	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
= OR >150	14.3	19.5	20.9	20.9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
= OR >0	14.3	19.5	20.9	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

TOTAL NUMBER OF OBS: 1600

PCT FREQ NM <5/8: 78.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
17.5	18.4	22.4	17.0	10.6	6.7	5.2	3.3	5.9	*	1751

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1859-1973

ANNUAL

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	.1	.1	.3	.3	.1	.7	.1	.1	.0	.1	1.6	
	TOT %	.1	.1	.3	.4	.1	.7	.2	.1	.0	.1	1.7	
2<5	PCP	.0	.0	.1	.1	.0	.1	.2	.1	.0	.0	.7	
	NO PCP	.0	.1	.3	.3	.1	.1	.2	.1	.0	.0	1.1	
	TOT %	.0	.1	.3	.4	.1	.2	.4	.2	.0	.0	1.8	
5<10	PCP	.1	.2	.5	.5	.4	.4	1.1	.8	.0	.1	4.0	
	NO PCP	1.2	2.3	7.1	7.6	3.1	2.1	3.3	3.3	.0	1.1	31.1	
	TOT %	1.3	2.5	7.5	8.1	3.5	2.5	4.4	4.1	.0	1.2	35.1	
10+	PCP	.0	.0	.2	.2	.0	.2	.4	.3	.0	.0	1.3	
	NO PCP	2.0	3.4	14.0	16.2	4.1	3.7	7.5	6.3	.0	2.9	39.6	
	TOT %	2.0	3.4	14.2	16.4	4.1	3.9	7.8	6.6	.0	3.0	60.8	
TOT OBS													5068
TOT PCT													3.6 6.2 22.5 25.4 7.8 6.9 12.9 11.0 .0 4.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.1	.2	.0	.1	.2	.1	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.2	.1	.1	.3	.1	.0	.0	1.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.7	
	11-21	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.3	.3	.1	.2	.2	.1	.0	.1	1.3	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.1	.2	.2	.1	.1	.2	.2	.0	.0	1.2	
	11-21	.0	.0	.1	.1	.0	.0	.2	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.3	.4	.2	.2	.5	.3	.0	.1	2.2	
5<10	0-3	.1	.3	.3	.4	.2	.1	.2	.3	.0	1.0	3.0	
	4-10	.7	1.1	2.7	2.9	1.5	1.1	1.9	1.8	.0	.0	13.6	
	11-21	.1	.2	1.6	1.6	.3	.3	.9	.7	.0	.0	5.6	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	TOT %	.9	1.5	4.6	4.9	2.1	1.6	3.1	2.8	.0	1.0	22.5	
10+	0-3	.8	1.1	1.3	1.3	1.1	1.0	1.4	1.2	.0	4.9	14.0	
	4-10	1.5	3.0	11.5	12.2	4.0	2.7	4.8	4.5	.0	.0	44.1	
	11-21	.1	.5	4.2	4.8	1.1	.5	1.7	1.3	.0	.0	14.1	
	22+	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3	
	TOT %	2.4	4.6	17.0	18.3	6.1	4.2	8.0	7.1	.0	4.9	72.7	
TOT OBS													9062
TOT PCT													3.6 7.4 22.4 24.2 8.5 6.3 12.1 10.4 .0 6.0 100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

ANNUAL

AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	.0	.6	1.1	5.8	9.6	4.3	1.4	.3	.6	.3	23.9	76.1	434
06009	.0	.0	.5	4.7	7.9	3.6	.7	.0	.1	.0	19.4	80.6	436
12015	.0	.0	.5	3.8	6.0	3.3	.4	.0	.6	.2	14.8	85.2	407
18021	.3	.0	.3	4.6	8.9	4.2	1.2	.2	.2	.4	20.3	79.7	442
TOT													1719
PCT	.1	.1	.5	4.9	8.6	3.7	1.0	.1	.4	.2	19.6	80.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.9	.4	1.8	1.5	22.8	72.5	1963
06009	1.3	.3	1.7	2.7	23.6	70.4	1816
12015	1.0	.4	1.4	2.4	23.0	71.8	3253
18021	.9	.2	1.2	1.8	27.0	68.9	7347
TOT							9379
PCT	1.0	.3	1.5	2.1	24.0	71.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	.0	1.8	9.2	17.1	73.7	408
06009	.1	.6	6.7	13.8	79.5	415
12015	.0	.5	6.7	10.0	83.3	376
18021	.3	.5	6.3	16.5	77.1	401
TOT						1600
PCT	.1	.8	7.4	14.3	78.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.5	.3	.2	.0	1.0	
85/89	.0	.0	.0	.2	1.8	6.5	2.6	.7	11.8	
80/84	.0	.0	.0	.3	3.2	28.7	35.2	9.4	76.8	
75/79	.0	.0	.0	.0	.2	2.5	4.4	3.1	10.2	
70/74	.0	.0	.0	.0	.0	.0	.0	.1	.1	
TOTAL									3289	100.0
PCT	.0	.0	.0	.6	5.7	37.9	42.4	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.3	.1	.1	.1	.2	.2	.0	.0
85/89	.4	1.0	3.1	2.2	.8	.4	1.5	1.7	.0	.8
80/84	3.0	4.1	17.2	20.9	5.4	4.8	9.2	8.5	.0	3.5
75/79	.3	.3	1.4	2.6	1.8	1.4	1.3	1.0	.0	.2
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	3.7	5.5	22.1	25.8	8.2	6.7	12.2	11.5	.0	4.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	88	87	82	79	76	72	82.3	3152
06009	95	90	88	83	79	77	74	83.3	2876
12015	92	86	84	82	79	77	72	81.8	4805
18021	93	85	83	81	78	76	72	80.8	3689
TOT	95	89	86	82	78	76	72	82.0	14522

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	4.6	39.5	40.0	15.5	82	889		
06009	.0	1.5	14.2	46.2	29.7	8.5	77	752		
12015	.0	.5	3.7	36.0	45.3	14.5	82	987		
18021	.0	.5	1.8	28.4	54.0	15.3	83	950		
TOT	0	22	197	1268	1550	521	81	3558		

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

ANNUAL

TABLE 17

AREA-0013: SOUTHEAST JAVA SEA
6.25 112.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
9/10	.0	.0	.0	.0	.0	.1	.1	7	.0	.2
7/8	.0	.0	.0	.1	.2	.3	.0	24	.0	.6
6	.0	.0	.0	.1	.0	.3	.0	17	.0	.4
5	.0	.0	.0	.1	.3	.2	.0	35	.0	.9
4	.0	.0	.0	.7	1.5	.2	.0	94	.0	2.4
3	.0	.0	.1	.8	1.5	.2	.0	102	.0	2.5
2	.0	.0	.4	4.3	2.3	.2	.0	289	.1	7.1
1	.0	.0	.9	7.3	1.8	.1	.0	390	.3	9.7
0	.0	.0	2.9	20.0	1.0	.1	.0	979	.6	24.1
-1	.0	.0	2.6	10.2	1.1	.0	.0	555	.3	13.6
-2	.0	.2	4.8	14.5	.5	.0	.0	821	.3	19.8
-3	.0	.0	2.1	3.4	.1	.0	.0	228	.0	3.6
-4	.0	.3	2.9	3.3	.0	.0	.0	260	.0	6.5
-5	.0	.3	1.5	1.0	.0	.0	.0	116	.0	2.9
-6	.0	.1	.6	.2	.0	.0	.0	36	.0	.9
-7/-8	.0	.3	.5	.1	.0	.0	.0	34	.0	.9
-9/-10	.0	.0	.1	.0	.0	.0	.0	5	.0	.1
-11/-13	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL								3995		
PCT	.2	1.2	19.3	66.3	11.3	1.6	.1	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.2	.5	.0	.0	.0	.0	.7
1-2	.3	.9	.1	.7	.0	.0	1.3	.1	2.0	.1	.0	.0	.0	2.1
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.2	.0	.0	.0	2.0	.2	2.9	.2	.0	.0	.0	3.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	1.4	.2	.0	.0	.0	1.7	.6	1.5	.1	.0	.0	.0	2.2
1-2	.4	9.2	3.2	.0	.0	.0	12.7	.4	9.3	4.2	.0	.0	.0	13.9
3-4	.0	2.0	5.2	.0	.0	.0	7.2	.0	2.8	7.3	.1	.0	.0	10.2
5-6	.1	.3	2.2	.0	.0	.0	2.6	.0	.5	4.2	.2	.0	.0	4.9
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.1	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	12.9	11.2	.0	.0	.0	24.6	1.0	14.1	16.4	.3	.0	.0	32.1

PERIOD: (OVER-ALL) 1963-1973

ANNUAL
TABLE 18 (CONT)AREA 0013 SOUTHEAST JAVA SEA
6.25 112.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.1	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.3	1.6	.6	.0	.3	.0	2.5	.5	1.6	.0	.0	.0	.0	2.1
3-4	.0	.8	.2	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.9	1.1	.0	.0	.0	3.7	.5	2.2	.2	.2	.0	.0	3.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.7	.9	.1	.0	.0	.0	1.2	
1-2	.3	4.7	1.5	.0	.0	.0	6.4	1.0	2.3	1.2	.0	.0	.0	4.5	
3-4	.0	.9	3.2	.4	.0	.0	4.5	.0	.9	1.8	.0	.0	.0	2.7	
5-6	.0	.0	1.1	.3	.0	.0	1.4	.0	.1	.8	.0	.0	.0	.9	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.2	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.7	5.1	.7	.0	.0	14.3	1.2	4.2	3.9	.8	.4	.0	9.8	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.3	6.1	.4	.0	.0	.0	15.8	
1-2	3.4	31.4	10.8	.0	.0	.0	45.6	
3-4	.0	7.4	17.8	.9	.0	.0	25.7	
5-6	.1	1.2	8.8	.4	.0	.0	10.5	
7	.0	.0	1.2	.3	.0	.0	1.5	
8-9	.0	.0	.2	.2	.0	.0	.7	
10-11	.0	.0	.0	.0	.2	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.8	46.1	39.3	1.4	.4	.0	100.0	1025

PERIOD: (OVER-ALL) 1950-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.3	31.1	20.3	6.3	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1097	2
6-7	.3	1.5	6.3	4.8	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	4
8-9	.0	.2	.2	.6	.4	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
12-13	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	8.9	1.6	1.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	1
TOTAL																				1474	3
PCT	18.5	35.1	28.2	12.6	3.8	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1855-1973

TABLE 20

AREA 0013 SOUTHEAST JAVA SEA
6.28° 112.9E°

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TEMP DL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.1	.2	.2	.4	.8	.1	.0	.0	.1	.0	.0	.7	25	.2
87/88	1.9	.6	2.6	3.5	1.8	.6	.3	.1	.1	1.6	3.1	6.9	215	1.6
85/86	11.7	10.7	14.5	23.1	18.3	7.8	1.8	.3	1.7	6.5	23.1	21.1	1473	11.2
83/84	34.0	34.7	34.4	49.0	49.0	37.7	12.1	5.9	9.3	23.2	31.4	43.9	4258	32.2
81/82	42.9	43.5	39.2	20.9	25.9	44.4	80.3	31.8	34.4	49.8	19.7	23.3	5358	40.6
79/80	8.4	8.9	5.9	2.7	3.0	7.9	21.5	34.6	30.8	8.2	2.4	3.3	1593	12.1
77/78	1.0	1.2	1.2	.2	.7	1.0	3.1	6.1	3.3	.7	.2	.9	223	1.7
75/76	.0	.2	.0	.2	.3	.3	.9	1.2	.4	.2	.2	.0	43	.3
73/74	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	6	.8
71/72	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.8
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1234	1222	1114	1172	1200	1086	1200	1285	1070	1065	1102	431	15201	100.0
MEAN	82.6	82.4	82.8	83.6	83.2	82.4	81.2	80.6	81.0	82.3	83.6	83.6	82.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1009	1008	1010	1009	1009	1008	1009	555
FEB	1010	1010	1009	1008	1009	1010	1009	1009	1009	553
MAR	1010	1010	1009	1008	1010	1009	1009	1008	1009	519
APR	1010	1009	1009	1008	1009	1010	1009	1009	1009	443
MAY	1009	1009	1008	1009	1009	1010	1009	1009	1009	578
JUN	1010	1010	1009	1009	1010	1010	1010	1010	1010	516
JUL	1012	1011	1010	1009	1010	1011	1011	1010	1010	449
AUG	1011	1011	1010	1009	1010	1011	1011	1010	1010	431
SEP	1012	1011	1011	1009	1010	1010	1010	1010	1010	360
OCT	1011	1011	1009	1009	1010	1010	1010	1010	1010	435
NOV	1011	1009	1009	1008	1009	1010	1009	1009	1009	392
DEC	1010	1009	1009	1007	1009	1009	1009	1008	1009	352
ANN	1011	1010	1009	1008	1010	1010	1010	1009	1010	5633
OAS	810	506	634	658	926	681	709	705		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1003	1006	1008	1009	1011	1013	1013	1014
FEB	1004	1003	1006	1008	1009	1011	1013	1014	1015
MAR	1003	1004	1006	1008	1009	1010	1012	1013	1014
APR	1003	1004	1005	1008	1009	1010	1013	1014	1015
MAY	1003	1004	1005	1007	1009	1010	1013	1014	1015
JUN	1004	1004	1006	1008	1010	1011	1012	1014	1015
JUL	1004	1006	1008	1009	1010	1011	1013	1014	1015
AUG	1005	1006	1008	1009	1010	1011	1014	1015	1016
SEP	1004	1005	1006	1009	1010	1012	1014	1015	1017
OCT	1005	1006	1007	1009	1010	1011	1014	1014	1016
NOV	1005	1005	1006	1008	1009	1010	1012	1014	1015
DEC	1004	1004	1005	1007	1009	1010	1012	1013	1014

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
N	28.0	.0	.0	.0	.0	.0	.0	28.0	.0	.0	.0	.0	.0	.0	72.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.3	.0	.0	.0	.0	76.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	71.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	5.6	1.4	.0	.0	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0	93.1
W	6.2	4.7	2.5	.0	.0	.0	.0	19.4	.0	8.3	1.4	.0	1.1	.0	75.7
NW	7.0	3.5	.6	.0	.0	.0	.0	11.1	7.0	.0	.0	.0	.0	.0	80.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1	.0	.0	.0	.0	.0	.0	7.1	7.1	14.3	.0	.0	.0	.0	71.4
TOT PCT	6.7	3.0	1.2	.0	.0	.0	.0	10.9	3.0	5.5	.6	.0	.6	.0	79.4
TOT OBS:	165														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
00003	8.0	8.0	.0	.0	.0	.0	.0	16.0	6.0	.0	.0	.0	.0	.0	78.0
06009	4.1	2.0	.0	.0	.0	.0	.0	6.1	2.0	.0	2.0	.0	.0	.0	89.8
12015	5.9	.0	2.9	.0	.0	.0	.0	8.8	2.9	20.0	.0	.0	2.9	.0	64.7
18021	8.8	.0	2.9	.0	.0	.0	.0	11.8	.0	5.9	.0	.0	.0	.0	82.4
TOT PCT	6.6	3.0	1.2	.0	.0	.0	.0	10.8	3.0	5.4	.6	.0	.6	.0	79.6
TOT OBS:	167														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.2	.3	.1	.0	.0		4.3	6.5	4.9	6.8	.0	5.6	.0	2.1	5.0	6.7	
NE	.6	1.2	.0	.0	.0	.0		1.8	4.4	1.2	2.5	.0	4.9	.0	2.1	.0	1.5	
E	1.6	1.4	.2	.0	.0	.0		3.3	4.2	1.9	3.7	2.2	2.8	4.8	4.3	.0	4.5	
SE	.1	1.0	.0	.0	.0	.0		1.1	4.9	3.4	.0	.7	.0	3.2	.0	.0	.0	
S	.0	.8	.0	.1	.0	.0		.9	8.0	.9	2.5	.0	.7	.0	.0	.0	1.5	
SW	1.2	4.4	2.2	.2	.0	.0		8.0	9.1	7.1	8.0	17.6	4.9	6.9	11.7	8.0	6.0	
W	3.0	21.6	17.6	1.9	.0	.0		44.2	10.6	38.3	40.7	39.0	50.0	54.8	47.9	45.0	39.6	
NW	1.4	16.0	9.1	.9	.0	.0		27.4	9.9	31.2	30.9	34.6	23.9	23.8	14.9	26.0	31.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.0							9.0	.0	11.1	4.9	5.9	7.0	6.5	17.0	16.0	9.0	
TOT OBS	83	232	138	15	0	0	468		6.8		81	81	34	71	62	47	25	67
TOT PCT	17.7	49.6	29.5	3.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	2.8	1.4	.1	.0	.0			4.3	6.5	5.9	3.8	.9	6.3					
NE	1.6	.2	.0	.0	.0			1.8	4.4	1.9	2.3	.9	1.1					
E	2.8	.4	.0	.0	.0			3.3	4.2	2.8	2.6	4.6	3.3					
SE	1.1	.0	.0	.0	.0			1.1	4.9	1.7	.2	1.8	.0					
S	.6	.2	.1	.0	.0			.9	8.0	1.7	.5	.0	1.1					
SW	3.2	3.5	1.3	.0	.0			8.0	9.1	7.6	9.0	8.9	6.5					
W	13.2	22.8	7.5	.6	.0			44.2	10.6	39.3	46.4	51.8	41.0					
NW	8.6	15.1	3.7	.0	.0			31.0	9.9	27.4	27.4	20.0	29.9					
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0					
CALM	9.0							9.0	.0		6.7	11.0	10.9					
TOT OBS	201	204	60	3	0	468			8.8		162	105	109	92				
TOT PCT	42.9	43.6	12.8	.6	.0			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0014 NORTHEAST JAVA SEA
4.73 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

WIND	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0603	8.0	8.6	53.7	28.4	1.2	.0	.0	8.4	100.0	182
0609	8.7	7.4	44.8	35.2	5.7	.0	.0	9.9	100.0	105
12015	11.0	11.9	49.9	27.5	3.7	.0	.0	8.5	100.0	109
18021	10.9	6.5	52.2	27.2	3.3	.0	.0	8.3	100.0	92
TOT	42	41	232	138	15	0	0	8.8		488
PCT	9.0	8.8	49.6	29.5	3.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	8.0	
NE	.0	.0	.0	.0	.0	
E	.9	1.2	.0	.0	1.7	
SE	1.5	.0	1.5	1.2	5.3	
S	.0	.0	.0	.0	7.0	
SW	.0	3.7	5.2	5.2	6.0	
W	9.1	1.2	16.5	11.3	5.6	
NW	3.0	3.7	17.4	4.6	5.9	
VAR	.0	.0	.0	.0	.0	
CALM	1.2	3.7	3.7	2.4	5.1	
TOT OBS	13	11	37	21	82	5.6
TOT PCT	15.9	13.4	45.1	25.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	1.8
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
.0	.0	.0	.0	2.7	1.2	.0	.0	.0	.0	.0	10.1
.0	.0	1.2	.0	3.0	.9	.0	.0	.0	.0	.0	32.9
.0	.0	1.5	1.2	2.7	.3	.0	.0	.0	.0	.0	22.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	8.5
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	3.7	3.7	11.0	2.4	.0	.0	.0	.0	.0	79.3
.0	.0	3.7	3.7	11.0	2.4	.0	.0	.0	.0	.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >1000	8.4	12.0	14.5	14.5	14.5	14.5	14.5	14.5
= OR >600	9.6	15.7	18.1	18.1	18.1	18.1	18.1	18.1
= OR >300	10.8	19.3	21.7	21.7	21.7	21.7	21.7	21.7
= OR >150	10.8	19.3	21.7	21.7	21.7	21.7	21.7	21.7
= OR >0	10.8	19.3	21.7	21.7	21.7	21.7	21.7	21.7
TOTAL	9	16	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 83

PCT FREQ NH <5/8: 78.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.4	15.3	21.2	18.8	18.8	10.6	3.5	2.4	7.1	.0	83

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	1.8	
	TOT %	.3	.0	.0	.0	.0	.0	.9	1.2	.0	.0	2.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	
1<2	PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
2<5	PCP	.0	.0	.0	.0	.0	.6	.9	.9	.0	.0	2.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.6	.9	.9	.0	.0	2.4	
5<10	PCP	.8	.0	.0	.0	.0	.2	2.3	1.7	.0	.6	5.3	
	NO PCP	2.4	.6	.0	.0	.0	.9	6.2	5.6	.0	.6	16.4	
	TOT %	3.2	.6	.0	.0	.0	1.1	7.5	7.3	.0	1.2	21.8	
10+	PCP	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	
	NO PCP	.3	2.1	2.6	2.1	1.7	9.2	29.5	16.5	.0	7.3	70.3	
	TOT %	.3	2.1	2.6	2.1	1.7	9.2	29.7	16.5	.0	7.3	71.5	
TOT OBS													165
TOT PCT		3.8	2.7	2.6	2.1	1.7	10.9	41.8	25.9	.0	8.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	4-10	.2	.2	.0	.0	.0	.3	.7	.3	.0	.0	1.7	
	11-21	.2	.0	.0	.0	.0	.0	.3	.5	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.2	.0	.0	.0	.3	1.2	.9	.0	.0	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.3	1.5	.9	.0	.0	2.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.3	1.9	1.5	.0	.0	4.1	
5<10	0-3	.7	.2	.0	.0	.0	.0	.3	.3	.0	.7	2.0	
	4-10	1.2	.2	.0	.0	.0	.2	2.8	2.6	.0	.0	6.8	
	11-21	.0	.0	.0	.0	.0	.4	1.7	2.3	.0	.0	4.4	
	22+	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	TOT %	2.0	.3	.0	.0	.0	.6	5.3	5.1	.0	.7	14.0	
10+	0-3	.3	.7	.0	.0	.0	.5	2.7	1.5	.0	8.2	14.0	
	4-10	1.9	1.0	1.1	1.5	.9	4.9	17.6	14.1	.0	.0	39.0	
	11-21	.2	.0	.3	.0	.0	1.0	11.1	5.1	.0	.0	17.7	
	22+	.2	.0	.0	.0	.2	.3	1.2	.5	.0	.0	2.4	
	TOT %	2.6	1.7	1.5	1.5	1.1	6.7	32.6	21.2	.0	8.2	77.1	
TOT OBS													293
TOT PCT		5.2	2.2	1.5	1.5	1.1	8.2	42.3	29.1	.0	9.9	100.0	

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

JANUARY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $\leq 3/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 3/8$ ANY HGT	TOTAL OBS
00003	.0	.0	4.2	6.3	20.8	.0	.0	.0	.0	.0	33.3	66.7	24
06009	.0	.0	4.2	.0	8.3	8.3	.0	.0	.0	.0	20.8	79.2	24
12015	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	10.5	89.5	19
18021	.0	.0	6.3	6.3	6.3	.0	.0	.0	.0	.0	18.8	81.3	16
TOT	0	0	3	3	9	3	0	0	0	0	18	65	83
PCT	.0	.0	3.6	3.6	10.8	3.6	.0	.0	.0	.0	21.7	78.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.8	.9	1.9	3.8	15.1	74.5	106
06009	4.5	1.5	1.5	6.0	9.0	77.6	67
12015	1.7	.0	.0	3.3	15.0	80.0	60
18021	1.6	.0	.0	3.2	16.1	79.0	62
TOT	4	2	3	12	41	228	295
PCT	3.1	.7	1.0	4.1	13.9	77.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	<150 450YD	<600 41	<1000 45	1000+ AND 5+	NH $\leq 3/8$ AND 5+	TOTAL OBS
00003	.0	4.2	10.7	16.7	66.7	24
06009	.0	4.2	8.3	12.5	79.2	24
12015	.0	.0	.0	10.5	89.5	19
18021	.0	6.3	12.5	6.3	81.3	16
TOT	0	3	8	10	65	83
PCT	.0	3.6	9.6	12.0	78.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.2	.0	.0	.0	1	1.2
85/89	.0	.0	.0	.0	1.2	4.0	2.5	.0	7	8.6
80/84	.0	.0	.0	.0	1.2	27.2	40.7	2.5	58	71.6
75/79	.0	.0	.0	.0	.0	2.5	9.9	6.2	15	18.5
TOTAL	0	0	0	0	3	28	43	7	81	100.0
PCT	.0	.0	.0	.0	3.7	34.6	53.1	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.9	.3	.0	.0
85/89	.0	.0	1.2	.0	.0	.0	8.2	1.2	.0	.0
80/84	.0	.0	.0	1.5	.9	8.6	27.8	24.1	.0	8.6
75/79	.9	.0	.9	1.3	.0	1.9	7.1	4.9	.0	1.2
TOT	.9	.0	2.2	3.1	.9	10.5	42.0	30.6	.0	9.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	88	86	82	77	74	73	81.8	161
06009	95	94	87	82	77	75	75	82.2	103
12015	87	85	85	82	79	75	75	81.7	109
18021	86	84	83	81	77	76	76	81.2	92
TOT	95	88	86	82	77	75	73	81.7	465

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	29.2	54.2	16.7	83	24
06009	.0	.0	9.1	54.5	36.4	.0	77	22
12015	.0	.0	5.3	21.1	68.4	5.3	81	19
18021	.0	.0	.0	31.3	56.3	12.5	82	16
TOT	0	0	3	28	43	7	81	81

JANUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1859-1969

TABLE 17

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	.0	.0	.6	1	.0	.6
4	.0	.0	.0	1.3	.0	2	.0	1.3
3	.0	.0	.0	.6	.0	1	.0	.6
2	.0	.0	6.3	2.5	.0	14	.0	8.8
1	.0	.0	6.9	1.3	.0	13	.6	7.3
0	.0	1.9	21.3	.6	.0	38	.0	23.8
-1	.0	2.5	7.3	.0	.0	16	.0	10.0
-2	1.9	4.4	18.1	.6	.0	40	.0	25.0
-3	.0	1.3	2.3	.0	.0	6	.0	3.8
-4	.0	7.3	9.0	.0	.0	20	.0	12.3
-5	.0	1.3	.0	.0	.0	2	.0	1.3
-6	.6	2.5	.0	.0	.0	5	.0	3.1
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	5	34	108	12	1	160	1	139
PCT	3.1	21.3	67.5	7.3	.6	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.4
5-6	.0	1.3	.0	.0	.0	.0	1.3	.0	2.1	.0	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.7	.0	.0	.0	3.0	.0	2.1	.0	.0	.0	.0	2.1

PERIOD: (OVER-ALL) 1963-1969

JANUARY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	1.7	8.5	.0	.0	.0	.0	10.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.8	.0	.0	.0	5.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	1.7	10.2	3.8	.0	.0	.0	15.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7	
1-2	.0	18.2	6.8	.0	.0	.0	25.0	1.7	4.2	5.1	.0	.0	.0	11.0	
3-4	.0	3.4	9.7	.0	.0	.0	13.1	.0	8.8	1.7	.0	.0	.0	8.5	
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	4.2	.0	.0	.0	4.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	21.6	19.1	.0	.0	.0	40.7	1.7	12.7	11.0	.0	.0	.0	25.4	89.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.2	1.7	.0	.0	.0	.0	11.9	
1-2	3.4	33.9	11.9	.0	.0	.0	49.2	
3-4	.0	11.9	18.9	.0	.0	.0	28.8	
5-6	.0	3.4	8.8	.0	.0	.0	10.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.6	50.8	35.6	.0	.0	.0	100.0	59

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	30.3	17.1	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
6-7	1.3	1.3	11.8	9.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.8	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	0
TOTAL	12	27	23	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	3
PCT	15.8	35.5	30.3	17.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1854-1972AREA 0014 NORTHEAST JAVA SEA
4.78 113.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLNG DUST	
N	3.3	.0	.0	.0	.0	.0	.0	3.3	3.0	.0	.0	.0	.0	.0	91.7
NE	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	93.7
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	17.6	.0	.0	.0	.0	.0	17.6	.0	.0	.0	.0	.0	.0	82.4
SW	1.4	7.2	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	91.3
W	3.5	5.0	.0	.0	.0	.0	.0	8.5	2.6	1.4	.0	.0	.0	.0	87.2
NW	3.6	.8	1.6	.0	.0	.0	.0	6.1	.4	4.9	.0	.0	.0	.0	88.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.0	3.0	.5	.0	.0	.0	.0	6.4	1.5	2.0	.0	.0	.0	.0	90.1
TOT OBS:	203														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLNG DUST	
00003	3.2	6.3	.0	.0	.0	.0	.0	9.5	3.2	.0	.0	.0	.0	.0	87.3
06009	5.8	3.8	.0	.0	.0	.0	.0	9.6	.0	.0	.0	.0	.0	.0	90.4
12015	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	97.7
18021	2.1	.0	2.1	.0	.0	.0	.0	4.2	.0	8.3	.0	.0	.0	.0	87.5
TOT PCT	2.9	2.9	.5	.0	.0	.0	.0	6.3	1.4	1.9	.0	.0	.0	.0	90.3
TOT OBS:	207														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	1.9	5.4	1.7	.0	.0	.0	9.0	7.0	10.1	14.3	3.5	5.0	1.9	7.9	4.5	15.6	
NE	2.2	3.9	.5	.0	.0	.0	6.5	5.6	9.8	8.4	8.3	7.0	1.9	7.9	4.5	7.4	
E	.6	1.5	.1	.0	.0	.0	2.2	5.7	1.3	1.9	2.8	2.0	1.0	2.6	4.5	3.3	
SE	.7	1.5	.0	.0	.0	.0	2.2	4.5	.0	1.9	6.3	2.0	2.9	1.3	.0	4.1	
S	.3	1.2	.2	.0	.0	.0	1.6	5.9	1.0	.6	4.9	.0	7.2	.0	.0	.0	
SW	1.4	5.1	7.7	.1	.0	.0	8.9	8.1	5.5	10.4	3.5	14.0	9.1	14.5	6.8	7.4	
W	3.1	19.3	11.7	.1	.0	.0	34.3	9.5	33.4	29.5	36.8	42.0	37.0	36.8	29.5	31.1	
NW	3.8	14.2	7.9	.0	.0	.0	25.4	8.4	27.3	27.6	31.3	22.0	23.6	15.8	40.9	21.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.9						9.9	.0	15.6	5.2	2.8	6.0	15.4	13.2	9.1	9.8	
TOT OBS	99	215	98	1	0	0	413	7.4	77	77	36	50	52	38	22	81	
TOT PCT	24.0	52.1	23.7	.2	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	5.3	3.2	.5	.0	.0		9.0	7.0	12.2	4.4	4.4	12.7		
NE	4.7	1.7	.1	.0	.0		6.5	5.6	7.1	7.6	4.4	6.6		
E	1.6	.5	.1	.0	.0		2.2	5.7	1.6	2.3	1.7	3.6		
SE	2.0	.2	.0	.0	.0		2.2	4.5	1.0	3.8	2.2	3.0		
S	1.2	.4	.0	.0	.0		1.6	5.9	.8	2.0	4.2	.0		
SW	4.4	3.6	.8	.0	.0		8.9	8.1	6.0	9.6	11.4	7.2		
W	11.4	18.3	4.5	.0	.0		24.3	9.5	31.5	39.8	36.9	30.7		
NW	10.1	14.3	.9	.0	.0		25.4	8.4	27.4	25.9	20.3	26.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	9.9						9.9	.0	10.4	4.7	14.4	9.8		
TOT OBS	209	175	29	0	0	413		7.4	154	86	90	83		
TOT PCT	50.6	42.4	7.0	.0	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

AREA 0014 NORTHEAST JAVA SEA
4.78 113.9E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
0000Z	10.4	17.5	44.8	26.6	.6	.0	.0	7.7	100.0	154
0600Z	4.7	15.1	50.0	30.2	.0	.0	.0	8.4	100.0	86
1200Z	14.4	7.8	54.4	23.9	.0	.0	.0	7.1	100.0	90
1800Z	9.6	15.3	65.1	12.0	.0	.0	.0	6.8	100.0	83
TOT	1	58	215	98	1	0	0			
PCT	9.9	14.0	52.1	23.7	.2	.0	.0	100.0		

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION					MEAN CLUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	1.2	.0	.0	.9		3.4
NE	1.2	.0	1.2	1.2		4.6
E	.0	.0	.0	2.5		8.0
SE	1.2	.0	.3	.0		1.2
S	1.2	.9	.7	.9		4.5
SW	.0	.3	2.5	.3		6.3
W	3.4	3.7	20.7	9.9		5.9
NW	1.5	9.9	12.7	12.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.2	3.7	2.5	1.2		4.5
TOT OBS	9	15	33	24	81	5.6
TOT PCT	11.1	18.5	40.7	29.6	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
000	150	300	000	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	DBS
.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	1.2	
.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	2.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	3.1	
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2.8	
.0	.0	2.2	5.2	7.7	.0	.6	.0	.0	.0	21.9	
.0	1.2	.3	.9	9.9	1.2	.6	.0	.0	.0	22.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
.0	1	2	7	15	1	1	0	0	0	54	.81
.0	1.7	7.5	8.6	18.5	1.2	1.2	.0	.0	.0	66.7	100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM ≥4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >30
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >2000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >1000	17.9	20.2	20.2	20.2	20.2	20.2	20.2	20.2
= OR >600	26.2	28.6	28.6	28.6	28.6	28.6	28.6	28.6
= OR >300	27.4	31.0	31.0	31.0	31.0	31.0	31.0	31.0
= OR >150	28.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1
= OR > 0	28.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1
TOTAL	24	27	27	27	27	27	27	27

PCT FREQ NH 49/81 67.9

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.3	19.2	12.1	24.2	14.3	13.2	6.6	1.1	12.1	.0	91

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

FEBRUARY

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.5
	TOT %	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.5
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	.5
1<2	PCP	.2	.2	.0	.0	.0	.0	.5	.0	.0	.0	1.0	1.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.2	.0	.0	.0	.0	.5	.0	.0	.0	1.0	1.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.9	.1	.0	.0	1.0	1.0
	NO PCP	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	2.0	2.0
	TOT %	.0	.0	.0	.0	.0	1.0	.9	.1	.0	1.0	3.0	3.0
5<10	PCP	.0	.0	.0	.0	.0	.5	.4	.1	.0	.0	1.0	1.0
	NO PCP	3.1	1.0	1.2	1.2	.0	2.9	5.2	6.0	.0	.0	20.2	20.2
	TOT %	3.1	1.0	1.2	1.2	.0	3.0	5.5	6.2	.0	.0	21.2	21.2
10+	PCP	.0	.0	.0	.0	.4	.1	.9	1.6	.0	.0	3.0	3.0
	NO PCP	4.1	4.4	1.5	1.8	1.7	4.9	26.1	22.5	.0	4.4	70.9	70.9
	TOT %	4.1	4.4	1.5	1.8	2.1	4.4	27.0	24.1	.0	4.4	73.9	73.9
TOT OBS													209
TOT PCT		7.4	9.7	2.7	3.1	2.1	8.5	34.7	30.4	.0	9.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.3	.3	.3	.0	.0	.0	1.0	1.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.3	.0	.0	.0	.0	.3	.0	.0	.0	1.0	1.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.3	.0	.0	.0	.0	.3	.0	.0	.0	1.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.7
	4-10	.2	.2	.0	.0	.0	.0	.4	.6	.0	.0	1.3	1.3
	11-21	.3	.0	.0	.0	.0	1.0	.8	.2	.0	.0	2.3	2.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.2	.0	.0	.0	1.0	1.2	.7	.0	.7	4.3	4.3
5<10	0-3	.5	.3	.0	.3	.0	.0	.0	.5	.0	.0	1.7	1.7
	4-10	1.6	.3	.8	.5	.0	2.2	2.6	2.6	.0	.0	10.6	10.6
	11-21	.5	.0	.0	.0	.0	.5	1.9	1.4	.0	.0	4.3	4.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.6	.7	.8	.8	.0	2.6	4.6	4.5	.0	.0	16.6	16.6
10+	0-3	1.9	1.3	.7	.5	.2	.7	1.2	3.7	.0	10.6	20.9	20.9
	4-10	4.1	2.5	.8	.9	.9	2.2	15.0	13.0	.0	.0	39.4	39.4
	11-21	.5	.5	.0	.0	.2	.4	8.6	8.3	.0	.0	16.6	16.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	6.5	4.3	1.5	1.4	1.4	3.3	24.8	23.0	.0	10.6	76.8	76.8
TOT OBS													302
TOT PCT		9.9	5.5	2.3	2.6	1.4	7.4	31.5	28.2	.0	11.3	100.0	

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1856-1972

FEBRUARY

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	100 249	200 399	300 499	400 599	500 699	600 799	700 899	800 999	900 1099	1000 1199	1100 1299	1200 1399	1300 1499	TOTAL DBS	NM <5/8 ANY HGT	TOTAL DBS
0000	.0	.0	9.1	13.6	18.2	.0	4.5	.0	.0	.0	45.5	54.5	22				
0600	.0	.0	.0	4.3	26.1	.0	.0	.0	.0	.0	30.4	69.6	23				
1200	.0	4.8	.0	4.8	14.3	.0	.0	.0	.0	.0	23.8	76.2	21				
1800	.0	.0	.0	9.1	9.1	4.5	.0	.0	.0	.0	22.7	77.3	22				
TOT	0	1	2	7	15	1	1	0	0	0	27	61	88				
PCT	.0	1.1	2.3	8.0	17.0	1.1	1.1	.0	.0	.0	30.7	69.3	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
0000	.9	.0	1.8	4.5	16.1	78.8	112
0600	1.5	1.5	.0	4.6	18.5	73.8	65
1200	.0	.0	.0	3.3	20.0	76.7	80
1800	1.4	.0	1.4	4.3	13.0	79.7	69
TOT	3	1	3	13	51	235	306
PCT	1.0	.3	1.0	4.2	16.7	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
0000	.0	9.5	23.8	23.8	92.4	21
0600	.0	.0	4.8	28.6	66.7	21
1200	.0	5.0	10.0	18.0	75.0	20
1800	.0	.0	9.1	13.6	77.3	22
TOT	0	3	10	17	57	84
PCT	.0	3.6	11.9	20.2	67.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT PREC
90/94	.0	.0	.0	.0	1.2	.0	.0	.0	1	1.2
85/89	.0	.0	.0	.0	.0	6.0	.0	.0	5	6.0
80/84	.0	.0	.0	.0	1.2	27.4	47.6	8.3	71	84.3
75/79	.0	.0	.0	.0	.0	.0	7.1	1.2	7	8.3
TOTAL	0	0	0	0	2	28	46	8	84	100.0
PCT	.0	.0	.0	.0	2.4	33.3	54.8	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0
.0	1.2	.0	.0	.0	.0	3.0	.0	.0	.0
.0	3.6	2.4	2.7	3.3	5.4	27.1	32.4	.0	7.1
.9	.0	.0	.0	.9	.3	3.6	2.7	.0	.0
1.5	4.8	2.4	2.7	5.1	6.0	33.6	36.9	.0	7.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	92	90	86	82	77	75	74	81.7	154
0600	94	93	86	82	77	75	75	82.4	86
1200	92	89	84	82	79	78	78	81.3	90
1800	84	89	83	81	78	75	75	80.9	84
TOT	94	90	85	82	78	75	74	81.6	414

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	.0	4.8	28.6	61.9	4.8	81	21		
0600	.0	.0	4.8	54.5	31.8	9.1	79	22		
1200	.0	.0	.0	34.8	56.3	8.7	82	23		
1800	.0	.0	.0	27.3	59.1	13.6	83	22		
TOT	0	0	2	32	46	8	81	86		

FEBRUARY

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1836-1972AREA 0014 NORTHEAST JAVA SEA
4.75 113.92

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.5	1	.0	.5
9/10	.0	.0	.0	.0	.5	.0	1	.0	.5
7/8	.0	.0	.0	.0	.5	.0	1	.0	.5
6	.0	.0	.0	.0	1.1	.0	2	.0	1.1
4	.0	.0	.5	1.0	.0	.0	4	.0	2.1
3	.0	.0	.0	1.1	.0	.0	2	.0	1.1
2	.0	.0	4.2	1.0	.0	.0	11	.0	5.8
1	.0	.0	2.1	.5	.0	.0	5	.0	2.6
0	.0	.0	20.5	.5	.0	.0	40	.0	21.1
-1	.0	.0	10.0	.5	.0	.0	20	.0	10.5
-2	.0	10.0	20.5	.5	.0	.0	59	.0	31.1
-3	.0	2.1	2.6	.5	.0	.0	9	.0	4.7
-4	.0	5.3	5.3	.0	.0	.0	20	.0	10.5
-5	.5	4.2	1.1	.0	.0	.0	11	.0	5.8
-6	.0	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	1.0	.0	.0	.0	.0	.0	3	.0	1.6
TOTAL	4		127		4		190	0	190
PCT	2.1	21.6	67.3	6.3	2.1	.5	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	1.8	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

FEBRUARY

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8	.0
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.3	.0	.0	.0	1.3	.0	1.8	.4	.0	.0	.0	2.2	.0

HGT	M							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.8	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	14.3	6.7	.0	.0	.0	21.0	.0	11.2	2.2	.0	.0	.0	13.4	.0	.0
3-4	.0	6.7	4.9	.0	.0	.0	11.6	.0	7.6	11.2	.0	.0	.0	18.8	.0	.0
5-6	.0	1.8	8.0	.0	.0	.0	9.8	.0	1.8	2.7	.0	.0	.0	4.5	.0	.0
7	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	1.8	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	22.8	21.4	.0	.0	.0	46.0	.0	20.5	17.9	.0	.0	.0	38.4	92.9	.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	10.7	.0	.0	.0	.0	.0	10.7	DBS
1-2	.0	30.4	8.9	.0	.0	.0	39.3	
3-4	.0	14.3	17.9	.0	.0	.0	32.1	
5-6	.0	3.6	10.7	.0	.0	.0	14.3	
7	.0	.0	3.6	.0	.0	.0	3.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.7	48.2	41.1	.0	.0	.0	100.0	56

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.6	29.1	19.0	12.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59
6-7	.0	.0	2.5	2.5	6.3	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
8-9	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDBT	7.6	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
TOTAL	12	29	17	12	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
PCT	15.2	36.7	21.5	15.2	8.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1922-1973
(COVER-ALL) 1880-1973

MARCH

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.9	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	95.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	17.4	.0	.0	.0	.0	.0	.0	17.4	13.0	.0	.0	.0	.0	.0	69.6
SW	6.3	12.6	.0	.0	.0	.0	.0	18.9	2.1	4.2	.0	.0	.0	.0	74.7
W	9.1	1.4	.0	.0	.0	.0	.0	10.5	3.6	.7	.0	.0	.0	.0	85.1
NW	2.3	3.1	.0	.0	.0	.0	.0	5.5	3.9	4.7	.0	.0	.0	.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.4	2.7	.0	.0	.0	.0	.0	8.1	2.7	1.6	.0	.0	.0	.0	87.6
TOT OBS:	186														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FG WD PCPN	FG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG NEAR
00003	3.6	5.4	.0	.0	.0	.0	.0	8.9	1.8	.0	.0	.0	.0	.0	89.3
06009	5.0	.0	.0	.0	.0	.0	.0	5.0	7.5	.0	.0	.0	.0	.0	87.5
12015	2.5	2.5	.0	.0	.0	.0	.0	5.0	.0	2.5	.0	.0	.0	.0	92.5
18021	8.9	1.8	.0	.0	.0	.0	.0	10.7	1.8	3.6	.0	.0	.0	.0	89.9
TOT PCT TOT OBS:	5.2 192	2.6	.0	.0	.0	.0	.0	7.8	2.6	1.6	.0	.0	.0	.0	88.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.2	5.1	.6	.5	.0	.0		7.4	7.6		11.0	7.7	8.3	5.0	4.9	8.3	.0	9.3
NE	2.8	4.5	.6	.0	.0	.0		7.9	5.3		4.4	11.3	3.3	5.0	7.6	18.1	3.7	8.6
E	1.6	3.3	.2	.0	.0	.0		5.1	5.1		2.9	4.2	.0	6.0	5.4	4.2	.0	12.1
SE	.7	1.3	.2	.0	.0	.0		2.3	5.3		4.4	4.2	.0	1.0	.9	1.4	.0	2.9
S	1.1	1.3	.0	.0	.0	.0		2.6	4.3		2.9	.7	5.0	3.3	2.7	4.2	.0	2.9
SW	1.5	7.0	1.5	.2	.0	.0		10.2	7.7		9.6	5.6	20.0	13.5	15.6	4.2	15.7	5.7
W	2.1	21.0	7.4	.4	.0	.0		30.8	8.2		21.0	28.2	40.8	39.0	32.6	30.6	44.4	26.4
NW	2.3	14.2	5.7	.6	.0	.0		20.8	8.5		24.6	25.4	15.8	19.0	19.6	18.1	21.3	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.7							12.7	.0		19.1	12.7	6.7	8.0	10.7	11.1	14.8	14.3
TOT OBS	108	237	58	7	0	0		408	6.8		68	71	30	50	36	36	27	70
TOT PCT	26.0	58.1	14.2	1.7	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	4.1	2.8	.4	.1	.0			7.4	7.6		9.4	6.3	6.3	6.7
NE	9.8	2.1	.0	.0	.0			7.9	5.3		7.9	4.4	11.7	7.2
E	4.0	1.1	.0	.0	.0			5.1	5.1		3.6	3.8	4.9	8.8
SE	1.8	.5	.0	.0	.0			2.3	5.3		4.3	.6	1.1	2.1
S	2.2	.4	.0	.0	.0			2.6	4.3		1.8	4.1	3.3	2.1
SW	5.2	4.0	1.0	.0	.0			10.2	7.7		7.6	13.9	11.1	8.5
W	12.0	17.8	1.0	.0	.0			30.8	8.2		24.6	39.7	31.8	31.4
NW	8.1	11.6	.6	.4	.0			20.8	8.5		23.0	17.8	19.0	18.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	12.7							12.7	.0		13.8	7.5	10.9	14.4
TOT OBS	229	165	12	2	0			408	6.8		139	80	92	97
TOT PCT	58.1	40.4	2.9	.5	.0			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1927-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0014 NORTH-EAST JAVA SEA
4.78 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	15.8	13.7	55.4	13.7	1.4	.0	.0	6.3	100.0	139
0600	7.5	7.5	63.8	18.8	2.3	.0	.0	7.7	100.0	80
1200	10.9	17.4	57.6	12.0	2.5	.0	.0	6.5	100.0	92
1800	14.4	13.4	57.7	13.4	1.0	.0	.0	6.1	100.0	97
TOT	52	54	237	58	7	0	0	6.6		408
PCT	12.7	13.2	58.1	14.2	1.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.6	2.6	1.3		5.5
NE	.0	.3	1.3	.7		5.5
E	.0	.0	.0	.7		8.0
SE	.0	.0	.0	.0		.0
S	2.0	1.3	.0	1.0		3.6
SW	.7	.7	5.9	8.6		6.7
W	3.9	9.9	17.8	10.9		5.6
NW	1.3	3.3	5.3	5.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	6.6	1.3	5.3	.0		3.1
TOT OBS	11	14	29	22	76	5.4
TOT PCT	14.5	18.4	38.2	28.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT:NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999				
.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	4.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.3	
.0	.0	1.3	4.3	.3	3.0	.0	.0	.0	.0	.0	6.9	
.0	.0	1.3	4.6	8.6	3.3	.7	.0	.0	.0	.0	24.0	
.0	.0	.0	1.6	1.6	.7	.7	1.3	.0	.0	.0	9.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	11.8	
0	0	2	9	9	6	1	1	0	0	0	48	76
.0	.0	2.8	11.8	11.8	7.9	1.3	1.3	.0	.0	.0	63.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	• OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >500D	• OR >0	
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	
• OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
• OR >3500	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5	
• OR >2000	7.6	8.9	10.1	10.1	10.1	10.1	10.1	10.1	
• OR >1000	19.0	21.5	22.8	22.8	22.8	22.8	22.8	22.8	
• OR >600	27.8	32.9	34.2	34.2	34.2	34.2	34.2	34.2	
• OR >300	27.8	35.4	36.7	36.7	36.7	36.7	36.7	36.7	
• OR >150	27.8	35.4	36.7	36.7	36.7	36.7	36.7	36.7	
• OR >0	27.8	35.4	36.7	36.7	36.7	36.7	36.7	36.7	
TOTAL	22	28	29	29	29	29	29	29	

TOTAL NUMBER OF OBS: 79

PCT FREQ NM <5/8: 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.7	14.9	18.4	14.9	12.6	11.5	8.0	1.1	12.6	87

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1880-1973

MARCH

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
	TOT %	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
1/2<1	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
	TOT %	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	1.1
2<5	PCP	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	1.1
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	.5
	TOT %	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	1.6
5<10	PCP	.0	.0	.0	.0	.0	2.4	2.8	.1	.0	.0	.0	5.4
	NO PCP	.8	1.4	1.1	.8	.0	3.2	5.9	3.5	.0	3.2	.0	20.0
	TOT %	.8	1.4	1.1	.8	.0	5.7	8.8	3.6	.0	3.2	.0	25.4
10+	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
	NO PCP	4.5	4.2	3.8	.8	2.6	7.2	26.6	12.6	.0	8.1	.0	70.3
	TOT %	4.5	4.2	3.8	.8	2.6	7.2	27.2	12.6	.0	8.1	.0	70.8
TOT OBS													185
TOT PCT		5.4	6.1	4.9	1.6	3.1	12.8	37.3	17.3	.0	11.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.5	.8	.0	.0	.0	1.3	1.0	.0	.0	.0	3.5
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.5	.8	.0	.0	.0	1.6	1.0	.0	.0	.0	3.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.3	.0	.8	.2	.0	.0	.0	1.3
2<5	0-3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	4-10	.2	.0	.5	.2	.0	.0	.5	1.0	.0	.0	.0	2.2
	11-21	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	1.3	.5	.2	.0	.0	.8	1.0	.0	.0	.0	3.8
5<10	0-3	.0	.3	.3	.0	.0	.2	.5	.3	.0	2.2	.0	3.8
	4-10	.5	.5	.5	.5	.0	1.3	4.2	2.3	.0	.0	.0	9.6
	11-21	.0	.0	.0	.0	.0	1.6	1.6	.6	.0	.0	.0	3.8
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
	TOT %	.5	.8	.8	.5	.0	3.3	6.3	3.3	.0	2.2	.0	17.5
10+	0-3	1.2	1.5	1.3	.6	1.1	1.1	1.4	1.6	.0	10.8	.0	20.7
	4-10	4.3	1.8	1.6	1.1	.9	6.1	13.2	11.1	.0	.0	.0	42.0
	11-21	.6	.2	.3	.0	.0	.2	5.4	3.3	.0	.0	.0	10.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	6.1	3.4	3.2	1.8	2.0	7.4	22.1	16.2	.0	10.8	.0	72.9
TOT OBS													314
TOT PCT		6.9	6.0	5.1	2.4	2.3	10.7	31.8	21.7	.0	13.1	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.3	4.3	8.7	4.3	.0	.0	.0	.0	21.7	78.3	23
06009	.0	.0	4.0	12.0	16.0	12.0	.0	.0	.0	.0	44.0	56.0	25
12015	.0	.0	.0	5.9	11.8	5.9	5.9	.0	.0	.0	29.4	70.6	17
18021	.0	.0	.0	18.2	9.1	4.5	.0	4.5	.0	.0	36.4	63.6	22
TOT	0	0	2	9	10	6	1	1	0	0	29	58	87
PCT	.0	.0	2.3	10.3	11.5	6.9	1.1	1.1	.0	.0	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	4.6	.9	.9	3.7	11.9	78.0	109
06009	5.0	.0	.0	3.3	11.7	80.0	60
12015	1.4	1.4	1.4	2.9	24.3	68.6	70
18021	3.7	.0	2.5	4.9	23.5	65.4	81
TOT	12	2	4	12	56	234	320
PCT	3.8	.6	1.3	3.8	17.5	73.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<1 41	<1000 45	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.8	9.5	14.3	78.2	21
06009	.0	4.2	10.7	29.2	54.2	24
12015	.0	.0	12.3	20.0	66.7	15
18021	.0	.0	21.1	21.1	57.9	19
TOT	0	2	12	17	50	79
PCT	.0	2.5	15.2	21.5	63.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	8.9	.0	.0	7	8.9
80/84	.0	.0	.0	.0	1.3	27.8	46.8	3.8	63	79.7
75/79	.0	.0	.0	.0	.0	.0	3.8	7.6	9	11.4
TOTAL	0	0	0	0	1	29	40	9	79	100.0
PCT	.0	.0	.0	.0	1.3	36.7	50.6	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	1.9	.0	.0	.0	.0	1.3	2.5	.6	.0	2.5
80/84	3.5	3.5	.6	.0	1.3	13.0	31.0	13.0	.0	13.9
75/79	1.3	.0	.0	.0	.0	1.3	5.7	3.2	.0	.0
TOTAL	6.6	3.5	.6	.0	1.3	15.3	39.2	16.8	.0	16.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	86	82	76	75	73	81.9	140
06009	91	90	87	82	76	76	76	82.5	79
12015	92	88	85	82	79	79	78	82.1	91
18021	88	87	84	82	77	75	75	81.3	97
TOT	92	89	86	82	78	75	73	81.9	407

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	27.3	59.1	13.6	83	22		
06009	.0	.0	4.8	57.1	33.3	4.8	78	21		
12015	.0	.0	5.9	29.4	58.8	5.9	82	17		
18021	.0	.0	.0	27.3	54.5	18.2	84	22		
TOT	0	0	2	29	42	9	82	82		

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1860-1973

MARCH

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NQ FOG
7/8	.0	.0	.0	.0	.6	1	.0	.6
6	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	1.2	.0	.6	2	.0	1.9
4	.0	.0	1.2	3.1	.6	5	.0	4.9
3	.0	.0	.6	2.5	.0	3	.0	3.1
2	.0	.0	8.0	3.7	.0	19	.0	11.7
1	.0	.6	3.1	1.2	.0	5	.0	4.9
0	.0	.6	18.5	1.2	.0	33	.0	20.4
-1	.0	1.2	8.6	3.1	.0	21	.0	13.0
-2	.0	3.1	19.8	.0	.0	37	.0	22.8
-3	.0	3.1	3.1	.0	.0	10	.0	6.2
-4	.6	3.1	1.9	.0	.0	9	.0	5.6
-5	1.9	.6	.6	.0	.0	5	.0	3.1
-6	.6	.0	.0	.0	.0	1	.0	.6
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	6	20	108	25	3	162	0	162
PCT	3.7	12.3	66.7	15.4	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.2	.0	.0	.0	6.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	.0	.0	.0	.0	2.8	.0	9.0	4.2	.0	.0	.0	13.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	29.2	5.6	.0	.0	.0	34.7	.0	3.5	2.8	.0	.0	.0	6.3	.0
3-4	.0	2.8	8.3	.0	.0	.0	11.1	.0	.0	6.9	.0	.0	.0	6.9	.0
5-6	.0	.0	5.6	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	34.7	19.4	.0	.0	.0	54.2	.0	3.5	9.7	.0	.0	.0	13.2	88.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	8.1	.0	.0	.0	.0	18.9	
1-2	.0	43.2	8.1	.0	.0	.0	51.4	
3-4	.0	5.4	18.9	.0	.0	.0	24.3	
5-6	.0	.0	5.4	.0	.0	.0	5.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.8	56.8	32.4	.0	.0	.0	100.0	37

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.1	28.8	12.1	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	2
6-7	1.5	3.0	3.0	9.1	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	18.2	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	0
TOTAL	19	23	11	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	2
PCT	28.8	34.8	16.7	13.6	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

APRIL

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.9	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	91.1
NE	3.0	.0	.0	.0	.0	.0	.0	3.0	6.0	7.3	.0	.0	.0	.0	89.8
E	3.2	4.0	.0	.0	.0	.0	.0	7.3	4.0	2.8	.0	.0	.0	.0	89.4
SE	.0	1.5	.0	.0	.0	.0	.0	1.5	.5	3.9	.0	.0	.0	.0	94.2
S	7.4	3.6	.0	.0	.0	.0	.0	13.0	5.6	.0	.0	.0	.0	.0	81.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	96.7
W	22.2	.0	.0	.0	.0	.0	.0	22.2	.0	23.6	.0	.0	.0	.0	56.9
NW	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	20.0	.0	.0	.0	.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	5.3	.0	.0	.0	.0	89.3
TOT PCT	5.0	2.0	.0	.0	.0	.0	.0	6.9	2.5	5.4	.0	.0	.0	.0	85.6
TOT OBS:	202														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00003	6.4	2.1	.0	.0	.0	.0	.0	8.5	2.1	2.1	.0	.0	.0	.0	.0	87.2
06009	4.7	2.3	.0	.0	.0	.0	.0	7.0	2.3	2.3	.0	.0	.0	.0	.0	88.4
12015	5.1	3.4	.0	.0	.0	.0	.0	8.5	3.4	8.5	.0	.0	.0	.0	.0	81.4
18021	3.6	.0	.0	.0	.0	.0	.0	3.6	1.8	7.3	.0	.0	.0	.0	.0	87.3
TOT PCT TOT OBS:	4.9 204	2.0	.0	.0	.0	.0	.0	6.9	2.5	5.4	.0	.0	.0	.0	.0	85.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	4.6	.2	.0	.0	.0		5.3	5.8	7.2	8.7	4.9	3.2	1.6	4.2	3.9	7.0	
NE	1.3	9.0	.6	.0	.0	.0		9.8	6.5	9.1	13.3	6.9	10.3	5.8	15.3	9.4	8.2	
E	2.8	16.7	6.0	.0	.0	.0		27.5	7.9	26.1	24.0	39.6	24.2	32.1	28.8	25.0	24.7	
SE	3.4	15.1	3.0	.0	.0	.0		21.5	7.1	27.2	17.3	23.7	22.6	22.4	16.9	24.1	17.7	
S	1.5	3.5	.4	.0	.0	.0		5.4	5.3	2.9	5.3	7.6	4.8	6.7	5.9	6.3	5.1	
SW	2.4	3.6	.0	.0	.0	.0		6.0	4.5	8.7	4.0	3.5	11.3	2.9	8.3	.0	6.3	
W	1.5	5.8	1.3	.2	.0	.0		8.9	7.3	4.3	16.0	4.2	11.3	8.3	5.1	12.9	8.2	
NW	.7	3.1	.3	.0	.0	.0		4.1	6.0	4.3	6.0	2.1	5.6	4.8	3.4	2.3	2.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	11.4							11.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	125	306	59	1	0	0		490	6.1	10.1	5.3	5.6	6.5	13.4	11.9	12.5	20.3	
TOT PCT	23.5	67.4	11.4	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	3.9	1.3	.0	.0	.0		5.3	8.0	3.8	2.7	6.1
NE	5.8	4.1	.0	.0	.0		9.8	11.3	9.2	9.9	8.6
E	12.1	14.5	.9	.0	.0		27.5	23.0	29.8	30.7	24.8
SE	10.4	10.9	.3	.0	.0		21.5	22.0	23.7	20.1	20.7
S	4.1	1.3	.0	.0	.0		5.4	4.2	3.9	6.4	5.4
SW	4.8	1.2	.0	.0	.0		6.0	8.3	8.4	5.3	4.5
W	5.3	2.6	.8	.0	.0		8.9	10.4	8.7	8.9	9.5
NW	2.8	1.3	.0	.0	.0		4.1	5.2	4.3	4.2	2.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	11.4						11.4	7.8	6.1	13.9	18.0
TOT OBS	298	182	10	0	0		490	144	98	137	111
TOT PCT	60.8	37.1	2.0	.0	.0		100.0	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	7.6	16.0	62.5	13.9	.0	.0	.0	.0	6.4	100.0	144
06009	6.1	22.4	60.2	10.2	1.0	.0	.0	.0	6.3	100.0	98
12015	13.9	10.9	63.5	11.7	.0	.0	.0	.0	5.9	100.0	137
18021	16.0	8.1	63.1	10.8	.0	.0	.0	.0	5.8	100.0	111
TOT	56	69	306	58	1	0	0	0	6.1		490
PCT	11.4	14.1	62.4	11.8	.2	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	2.8	1.0		5.6
NE	1.0	.0	.3	1.0		5.0
E	4.6	9.0	15.5	4.1		4.8
SE	8.8	14.7	8.5	.0		3.5
S	.0	.0	5.2	1.0		6.7
SW	.0	.0	1.5	.0		5.6
W	1.8	1.0	4.9	1.0		4.7
NW	.5	.0	.5	.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	5.2	2.1	3.1	.0	97	3.0
TOT OBS	22	26	41	8		4.3
TOT PCT	22.7	26.8	42.3	8.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	2.8	
.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.0	1.0
.0	.0	.0	.0	3.9	.0	1.8	.0	.0	.0	.0	27.6
.0	.0	.0	.0	1.5	1.0	1.0	.0	.0	.0	.0	28.4
.0	.8	.0	1.0	2.6	.0	.0	.0	.0	.0	.0	1.8
.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	1.0
.0	.0	.0	2.1	.8	.0	.0	.0	.0	.0	.0	5.9
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	8.2
.0	1	0	4	12	2	3	0	0	0	75	97
.0	1.0	.0	4.1	12.4	2.1	3.1	.0	.0	.0	77.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	.0	.0	.0	.0	.0	.0	.0	.0	
>5000	.0	.0	.0	.0	.0	.0	.0	.0	
>3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
>2000	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
>1000	15.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	
>600	19.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	
>300	19.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	
>150	19.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	
>0	19.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	
TOTAL	19	22	22	22	22	22	22	22	

TOTAL NUMBER OF OBS: 98

PCT FREQ NH <5/8: 77.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
8.7	12.6	25.2	20.4	9.7	9.7	4.9	3.9	4.9	.0	103

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

APRIL

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.2	.2	.0	.0	.0	.0	.7	.2	.0	.0	1.5	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	1.0	.5	.0	.0	2.0	
2<5	PCP	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	1.0	.5
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.5	.0	.5	.0	.0	.0	1.0	
5<10	PCP	.0	.0	1.0	.0	.0	.0	.2	.2	.0	.0	1.5	.5
	NO PCP	1.0	.7	4.0	2.2	.9	.1	1.1	.4	.0	3.0	13.4	
	TOT %	1.0	.7	5.0	2.2	.9	.1	1.4	.6	.0	3.0	14.9	
10+	PCP	.0	.0	1.2	.4	.4	.0	.5	.0	.0	.5	3.0	.5
	NO PCP	3.6	7.1	24.4	22.9	5.0	3.1	5.6	.7	.0	5.9	78.2	
	TOT %	3.6	7.1	25.6	23.3	5.3	3.1	6.1	.7	.0	6.4	81.2	
TOT OBS		5.1	8.3	30.6	25.5	6.7	3.7	9.9	1.9	.0	9.4	100.0	202
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
	4-10	.1	.1	.1	.1	.0	.0	.3	.3	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.1	.0	.0	.6	.3	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.3
	4-10	.7	.3	.4	.6	.0	.1	1.0	.0	.0	.0	3.2	
	11-21	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	.7	.3	.4	.6	.3	.3	1.4	.3	.0	.0	4.3	
5<10	0-3	.0	.0	.3	.3	.3	.0	.0	.0	.0	1.7	2.6	.9
	4-10	.6	.4	2.0	.7	.2	.1	.8	.4	.0	.0	3.2	
	11-21	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.4	2.6	1.3	.3	.1	.8	.4	.0	1.7	5.8	
10+	0-3	.4	1.8	3.0	3.7	1.6	1.9	.9	.0	.0	8.9	22.1	.0
	4-10	2.8	6.4	16.3	14.6	3.3	2.2	4.8	2.0	.0	.0	52.4	
	11-21	.3	.3	5.6	3.1	.2	.0	1.0	.1	.0	.0	10.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.5	8.5	24.9	21.3	5.1	4.1	6.7	2.1	.0	8.9	85.1	
TOT OBS		4.9	9.4	28.3	23.4	5.9	4.7	9.3	3.1	.0	10.9	100.0	349
TOT PCT													

APRIL

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	2400 2499	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	5.3	10.5	5.3	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26.3	73.7	19
0600	.0	.0	.0	.0	24.0	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.0	68.0	25
1200	.0	3.0	.0	6.1	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.2	84.8	33
1800	.0	.0	.0	4.2	8.3	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	83.3	24
TOT	0	1	0	4	12	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	79	101
PCT	.0	1.0	.0	4.0	11.9	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.8	78.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.0	.0	1.9	6.7	4.8	86.7	103
0600	.0	.0	.0	4.4	10.3	85.3	68
1200	.0	1.1	1.1	1.1	9.8	87.0	92
1800	1.2	.0	2.3	4.7	11.6	80.2	86
TOT	1	1	3	15	31	298	351
PCT	.3	.3	1.4	4.3	8.8	84.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/DH
CEILING HGT (FEET/NH >4/8) BY HOUR

HOURL (GMT)	<130 <90YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.0	5.3	21.1	73.7	19
0600	.0	.0	.0	33.3	66.7	25
1200	.0	3.1	9.4	8.3	84.4	32
1800	.0	.0	4.3	13.0	82.6	23
TOT	0	1	5	17	76	98
PCT	.0	1.0	5.1	17.3	77.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.0	21.4	8.7	1.9	34	93.0
80/84	.0	.0	.0	.0	.0	33.0	27.2	3.9	66	64.1
75/79	.0	.0	.0	.0	.0	.0	1.9	1.0	3	2.9
TOTAL	0	0	0	0	1	56	39	7	103	100.0
PCT	.0	.0	.0	.0	1.0	54.4	37.9	6.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	1.0	17.2	4.4	1.5	.2	1.0	.0	.0	.0	6.8
2.4	3.2	19.2	20.8	3.8	1.0	6.6	.7	.0	.0	6.8
1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
4.4	3.1	36.4	25.0	5.1	1.2	7.5	.7	.0	.0	14.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	90	89	87	83	79	77	73	82.1	140
0600	94	91	89	84	80	75	75	84.4	95
1200	88	87	86	83	79	78	78	82.9	136
1800	86	85	85	82	79	75	75	82.3	111
TOT	94	90	87	83	79	77	73	83.1	482

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	.0	42.1	34.8	21.1	82	19		
0600	.0	.0	.0	82.6	13.0	4.3	77	23		
1200	.0	.0	2.9	51.4	42.9	2.9	79	39		
1800	.0	.0	.0	44.4	51.9	3.7	80	27		
TOT	0	0	1	57	39	7	80	104		

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1869-1973

APRIL

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	n FOG	NO FOG
11/13	.0	.0	1.0	1.0	.0	2	.0	2.1
7/8	.0	.0	1.0	.5	.0	3	.0	.5
5	.0	.0	.0	.5	.5	2	.0	1.0
4	.0	.0	.5	1.5	.0	4	.0	2.1
3	.0	.0	.0	2.6	.0	5	.0	2.6
2	.0	.0	4.1	2.6	.5	14	.0	7.2
1	.0	.0	3.1	3.1	.5	13	.0	6.7
0	.0	.5	11.3	3.6	.5	31	.0	15.9
-1	.0	.0	8.7	5.6	.0	28	.0	14.4
-2	.0	1.0	23.1	1.5	.0	50	.0	25.6
-3	.0	.5	4.6	.5	.0	11	.0	5.6
-4	.5	3.1	8.2	.5	.0	24	.0	12.3
-5	.5	1.0	1.0	.0	.0	5	.0	2.6
-6	.0	1.0	.0	.0	.0	2	.0	1.0
-7/-8	.0	.5	.0	.0	.0	1	.0	.5
TOTAL	2	15	128	46	4	195	0	195
PCT	1.0	7.7	65.6	23.6	2.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.6	.0	.0	.0	1.6	.0	.4	1.6	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.6	.0	.0	.0	1.6	.4	3.3	1.6	.0	.0	.0	5.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
1-2	2.5	17.2	8.6	.0	.0	.0	28.3	.4	10.7	1.6	.0	.0	.0	12.7
3-4	.0	8.1	4.5	.0	.0	.0	10.7	.0	2.0	2.0	.0	.0	.0	4.1
5-6	.0	.0	5.7	.0	.0	.0	5.7	.0	.0	9.0	.0	.0	.0	9.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	23.4	18.9	.0	.0	.0	46.3	.4	12.7	14.3	.0	.0	.0	27.9

PERIOD: (OVER-ALL) 1963-1973

APR7L

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.6	.0	.0	.0	.0		1.6	.0	.0	.0	.0	.0	.0		.0
1-2	.0	2.9	1.2	.0	.0	.0		4.1	1.6	.4	.0	.0	.0	.0		2.0
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.5	1.2	.0	.0	.0		5.7	1.6	.4	.0	.0	.0	.0		2.0

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.2	.0	.0	.0	.0		1.2	.0	.4	.0	.0	.0	.0		.4	
1-2	.0	.0	.0	.0	.0	.0		1.2	.0	.4	.0	.0	.0	.0		.4	
3-4	.0	.0	3.3	.0	.0	.0		3.3	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	2.9	3.3	.0	.0	.0		5.7	.0	.8	.0	.0	.0	.0		.8	95.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	3.3	.0	.0	.0	.0	9.8	
1-2	4.9	32.8	14.8	.0	.0	.0	52.5	
3-4	.0	11.5	9.8	.0	.0	.0	21.3	
5-6	.0	.0	14.8	.0	.0	.0	14.8	
7	.0	.0	1.6	.0	.0	.0	1.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	47.5	41.0	.0	.0	.0	100.0	61

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.6	38.6	18.1	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	2
6-7	.0	3.8	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
8-9	.0	1.2	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
10-11	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	15	37	20	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	2
PCT	18.1	44.6	24.1	12.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1899-1972

MAY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	97.3
SE	3.9	.0	.0	.0	.0	.0	.0	3.9	.0	3.3	.0	.0	.3	.0	92.3
S	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	6.4	.0	89.3
SW	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0	89.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	71.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
TOT PCT	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	2.4	1.2	.0	.6	.0	93.3
TOT OBS:	170														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	.0	1.8	.0	.0	.0	94.7
06009	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	97.4
12015	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	2.8	.0	.0	2.8	.0	91.7
18021	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	6.8	2.3	.0	.0	.0	88.6
TOT PCT TOT OBS:	2.3 175	.6	.0	.0	.0	.0	.0	2.9	.0	2.3	1.1	.0	.6	.0	93.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.2	1.0	.1	.0	.0	.0		1.3	5.5	.7	3.3	.0	2.5	.8	1.0	.0	.0
NE	1.0	5.3	.6	.0	.0	.0		6.9	6.3	1.8	11.4	.0	5.8	5.9	8.3	3.8	11.2
E	2.9	22.2	11.3	.2	.0	.0		36.6	9.1	42.0	35.3	40.5	27.5	29.7	38.5	50.0	39.6
SE	3.1	24.8	11.1	.4	.0	.0		39.5	9.2	43.2	38.0	31.9	39.2	47.7	35.4	39.4	35.8
S	1.6	4.1	.6	.0	.0	.0		6.3	6.4	2.2	4.9	9.5	9.2	8.2	4.2	2.9	9.7
SW	1.2	1.0	.0	.0	.0	.0		2.3	4.2	1.4	1.6	11.2	3.3	1.6	2.1	.0	.7
W	1.0	.8	.0	.0	.0	.0		1.8	3.8	2.9	1.6	.0	3.3	1.6	3.1	.0	.0
NW	.5	1.4	.0	.0	.0	.0		2.0	5.7	.7	2.7	3.4	5.8	1.6	1.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	4.5	1.1	3.4	3.3	3.1	6.3	3.8	3.6
TOT OBS	68	276	108	3	0	0	455		8.1	69	92	29	60	64	48	26	67
TOT PCT	14.9	60.7	23.7	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.1	.2	.0	.0	.0		1.3	5.5	2.2	1.7	.4	.0	
NE	4.4	2.5	.0	.0	.0		6.9	6.3	7.3	3.9	6.9	9.1	
E	11.0	23.9	1.5	.2	.0		36.6	9.1	38.2	31.7	33.5	42.5	
SE	10.0	28.1	1.2	.2	.0		39.5	9.2	40.5	36.8	42.4	36.8	
S	3.6	2.5	.2	.0	.0		6.3	6.4	3.7	9.3	6.5	7.8	
SW	1.9	.4	.0	.0	.0		2.3	4.2	1.6	5.9	1.8	.5	
W	1.5	.2	.0	.0	.0		1.8	3.8	2.2	2.2	2.2	.0	
NW	1.2	.8	.0	.0	.0		2.0	5.7	1.9	3.1	1.3	.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	2.5	3.4	4.5	3.2	
TOT OBS	173	267	13	2	0	455		8.1	161	89	112	93	
TOT PCT	38.0	58.7	2.9	.4	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1889-1972

MAY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.5	13.0	57.1	27.3	.0	.0	.0	.0	8.2	100.0	161
06009	3.4	18.0	53.9	23.6	1.1	.0	.0	.0	8.0	100.0	89
12015	4.5	9.8	64.3	19.6	1.8	.0	.0	.0	8.2	100.0	112
18021	3.2	5.4	68.8	22.6	.0	.0	.0	.0	8.2	100.0	93
TOT	15	53	276	108	3	0	0	0	8.1		455
PCT	3.3	11.6	60.7	23.7	.7	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.6	1.3		7.3
E	8.4	11.7	21.8	.0		4.2
SE	13.6	10.7	17.5	1.3		4.3
S	.0	1.0	3.9	.0		5.8
SW	2.6	.0	.3	1.3		4.2
W	.0	2.6	.0	.0		4.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.0	.0	77	2.0
TOT OBS	20	20	34	3		4.3
TOT PCT	28.0	28.0	44.2	3.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	1.3	.6	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	7.1	3.2	1.0	.0	.0	.0	30.5	
SE	.0	.0	1.3	1.3	7.5	1.3	.3	.0	.0	.0	31.5	
S	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	2.9	
SW	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	3.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	0	0	1	1	13	4	2	0	0	0	56	77
TOT PCT	.0	.0	1.3	1.3	16.9	5.2	2.6	.0	.0	.0	72.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OR >2000	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
OR >1000	21.3	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
OR >600	22.8	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
OR >300	24.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
OR >150	24.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
OR >0	24.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
TOTAL	19	21	21	21	21	21	21	21	21

TOTAL NUMBER OF OBS: 79

PCT FREQ NM <5/8: 73.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS CO	TOTAL OBS
7.5	13.6	22.2	22.2	13.6	9.9	9.9	4.9	1.2	81

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1889-1972

MAY

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 8

		PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY											TOTAL OBS
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	
5<10	PCP	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	1.5	5.3	7.4	.6	.6	.6	.6	.0	.6	16.6	
	TOT %	.0	1.5	5.3	8.6	.6	.6	.6	.6	.0	.6	17.8	
10+	PCP	.0	.0	.0	.6	.3	.3	.0	.0	.0	.0	1.2	
	NO PCP	.9	5.6	26.8	34.8	6.1	2.9	1.5	1.8	.0	.0	79.9	
	TOT %	.9	5.6	26.8	35.4	6.4	2.8	1.5	1.8	.0	.0	81.1	
TOT OBS													149
TOT PCT		.9	7.1	32.1	45.1	7.0	2.8	2.1	2.4	.0	.6	100.0	

TABLE 9

		PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY											TOTAL OBS
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	1.0	1.3	.0	.0	.0	.0	.0	.0	2.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.0	1.6	.0	.0	.0	.0	.0	.3	2.9	
5<10	0-3	.0	.0	.0	1.2	.0	.0	.0	.3	.0	.6	2.1	
	4-10	.0	1.0	2.5	2.9	.3	.0	.3	.0	.0	.0	7.0	
	11-21	.0	.1	1.0	.3	.0	.0	.0	.0	.0	.0	1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.2	3.5	4.4	.3	.0	.3	.3	.0	.6	10.6	
10+	0-3	.3	.7	1.5	1.5	1.3	1.0	.4	.4	.0	2.1	9.4	
	4-10	1.0	4.5	20.5	22.6	2.9	.5	.7	1.2	.0	.0	34.0	
	11-21	.1	.7	9.2	11.4	.2	.0	.0	.0	.0	.0	21.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.5	5.9	31.3	35.6	4.5	1.5	1.2	1.6	.0	2.1	85.0	
TOT OBS													341
TOT PCT		1.5	7.0	36.4	42.4	4.8	1.5	1.5	1.9	.0	2.9	100.0	

MAY

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1989-1972AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.8	.0	14.3	4.8	.0	.0	.0	.0	23.8	70.2	21
06009	.0	.0	.0	.0	26.3	5.3	10.5	.0	.0	.0	42.1	57.9	19
12015	.0	.0	.0	.0	15.6	10.5	.0	.0	.0	.0	26.3	73.7	19
18021	.0	.0	.0	4.5	9.1	.0	.0	.0	.0	.0	13.6	86.4	22
TOT	0	0	1	1	13	4	2	0	0	0	21	80	81
PCT	.0	.0	1.2	1.2	16.0	4.9	2.5	.0	.0	.0	25.9	74.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.0	.0	4.0	10.5	84.7	124
06009	.0	.0	.0	.0	8.2	91.8	81
12015	1.2	1.2	1.2	3.6	10.7	82.1	84
18021	1.3	.0	.0	2.6	13.0	83.1	77
TOT	3	1	1	10	37	294	346
PCT	.9	.3	.3	2.9	10.7	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.8	4.8	19.0	76.2	21
06009	.0	.0	.0	44.4	55.6	18
12015	.0	.0	.0	26.3	73.7	19
18021	.0	.0	4.8	9.5	85.7	21
TOT	0	1	2	19	98	79
PCT	.0	1.3	2.5	24.1	73.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.4	15.3	.0	1.4	13	18.1
80/84	.0	.0	.0	.0	.0	31.9	44.4	5.6	59	81.9
TOTAL	0	0	0	0	1	34	32	5	72	100.0
PCT	.0	.0	.0	.0	1.4	47.2	44.4	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	13.2	4.9	.0	.0	.0	.0	.0	.0
.0	1.4	26.0	40.6	5.2	4.5	2.8	.0	.0	1.4
.0	1.4	39.2	45.5	5.2	4.5	2.8	.0	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	87	84	79	75	73	83.5	159
06009	89	88	88	84	81	77	77	83.9	85
12015	89	88	85	83	79	75	75	82.8	111
18021	86	85	84	82	79	73	73	82.1	92
TOT	91	89	87	83	79	75	73	83.1	447

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	38.9	50.0	11.1	81	18
06009	.0	.0	6.3	75.0	12.5	6.3	76	16
12015	.0	.0	.0	47.4	52.6	.0	80	19
18021	.0	.0	.0	30.4	60.9	8.7	92	23
TOT	0	0	1	35	35	5	80	76

PERIOD: (PRIMARY) 1923-1972
(OVER-ALL) 1880-1972

MAY

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WU FOG
7/8	.0	.0	.0	.0	.6	1	.0	.6
4	.0	.0	1.9	1.3	.0	3	.0	3.2
3	.0	.0	.0	1.9	.0	2	.0	1.9
2	.0	.6	5.8	3.9	.0	16	.0	10.3
1	.0	.0	3.9	3.2	.0	11	.0	7.1
0	.0	.0	25.2	3.2	.0	44	.0	28.4
-1	.0	.0	12.3	1.3	.0	21	.6	12.9
-2	.0	1.3	22.6	.6	.0	38	.6	23.9
-3	.0	.0	1.9	.0	.0	3	.0	1.9
-4	1.3	3.9	3.2	.0	.0	13	.0	8.4
-5	.0	.6	.0	.0	.0	1	.0	.6
TOTAL	2		119		1	155	2	153
PCT	1.3	6.4	76.8	14.8	.6	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	15.2	3.8	.0	.0	.0	19.0	.0	24.5	2.7	.0	.0	.0	27.2
3-4	.0	10.3	9.7	.0	.0	.0	19.6	.0	7.1	6.0	.0	.0	.0	13.0
5-6	.0	1.6	6.5	.0	.0	.0	8.2	.0	2.7	6.5	.0	.0	.0	9.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	27.2	19.6	.0	.0	.0	46.7	.0	34.2	15.2	.0	.0	.0	49.3

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	.0	.0	.0	.0	.0	4.3	
1-2	.0	40.4	6.4	.0	.0	.0	46.8	
3-4	.0	17.0	14.9	.0	.0	.0	31.9	
5-6	.0	4.3	12.8	.0	.0	.0	17.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	61.7	34.0	.0	.0	.0	100.0	47

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	35.5	14.5	6.5	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	3
6-7	.0	3.2	8.1	11.3	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
8-9	.0	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	6.5	1.6	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1
TOTAL	8.1	41.9	27.4	17.7	3.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	3
PCT	8.1	41.9	27.4	17.7	3.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1898-1972

JUNE

AREA 0014 NORTHEAST JAVA SEA
4.05 113.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA
N	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	.0	.0	.0	.0	.0	73.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	7.3	.0	.0	.0	.0	90.0
SE	2.1	.5	.0	.0	.0	.0	.0	2.7	3.2	3.2	.0	.0	.0	.0	92.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	75.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	1.7	.0	.0	.0	.0	.0	3.5	2.3	4.0	.0	.0	.0	.0	90.8
TOT OBS:	173														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.0	4.2	.0	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	91.7
06009	2.1	2.1	.0	.0	.0	.0	.0	4.3	4.3	.0	.0	.0	.0	.0	91.5
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	97.0
18021	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	13.0	.0	.0	.0	.0	84.8
TOT PCT TOT OBS:	1.7 174	1.7	.0	.0	.0	.0	.0	3.4	2.3	4.0	.0	.0	.0	.0	90.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.4	1.3	.1	.0	.0	.0		1.8	5.6	2.1	.0	7.2	.0	1.6	2.3	.0	2.4
NE	.5	1.7	.3	.0	.0	.0		3.6	7.8	3.4	1.8	6.1	2.5	1.6	4.5	.0	8.1
E	1.6	27.7	10.4	.1	.0	.0		34.8	9.5	35.6	29.9	31.7	33.3	32.0	44.3	35.3	39.5
SE	1.4	27.6	21.3	.8	.0	.0		51.0	10.6	47.9	37.9	43.9	35.0	35.3	42.0	36.9	46.0
S	.5	2.7	1.3	.0	.0	.0		4.5	8.7	8.2	5.5	2.2	1.7	0.1	2.3	4.3	3.2
SW	.3	.9	.1	.0	.0	.0		1.3	6.2	1.4	.0	4.4	1.7	3.3	.0	.0	.0
W	.0	.3	.3	.0	.0	.0		.7	9.0	.0	1.8	2.2	.8	.0	.0	.0	.0
NW	.2	.1	.1	.2	.0	.0		.7	12.6	1.4	.6	2.2	.0	.0	.0	.0	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	2.4	.0	5.0	.0	4.5	3.4	.0
TOT OBS	31	261	159	5	0	0	456		9.7	73	82	45	40	61	44	29	62
TOT PCT	6.8	57.2	34.9	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.3	.5	.0	.0	.0		1.8	5.6	1.0	3.1	1.9	1.6		
NE	1.9	1.6	.0	.0	.0		3.6	7.8	2.6	4.0	2.9	3.5		
E	6.9	26.3	1.5	.0	.0		34.8	9.5	32.6	32.6	37.1	38.2		
SE	6.3	40.6	3.9	.0	.0		51.0	10.6	39.2	50.2	49.8	49.5		
S	1.8	2.5	.3	.0	.0		4.5	8.7	6.8	1.9	4.3	3.6		
SW	.8	.5	.0	.0	.0		1.3	6.2	.6	2.9	1.9	.0		
W	.3	.3	.0	.0	.0		.7	9.0	1.0	1.4	.0	.0		
NW	.3	.1	.2	.0	.0		.7	12.6	1.0	1.0	.0	.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.3	2.9	1.9	1.1		
TOT OBS	98	331	27	0	0	456		9.7	135	105	105	91		
TOT PCT	21.3	72.6	5.9	.0	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1850-1972

JUNE

AREA 0014 NORTHEAST JAVA SEA
4.05 113.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-29	30-47					
00003	1.3	3.9	54.8	39.4	.6	.0	.0	.0	9.9	100.0	155
06009	2.9	4.8	54.3	35.2	2.9	.0	.0	.0	9.9	100.0	105
12015	1.9	6.7	67.9	28.6	.0	.0	.0	.0	9.2	100.0	105
18021	1.1	5.5	58.2	34.1	1.1	.0	.0	.0	9.7	100.0	91
TOT	8	23	261	159	5	0	0	0	9.7		456
PCT	1.8	5.0	57.2	34.9	1.1	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9 (BSCD)	TOTAL CBS	MEAN CLOUD COVER
N	.6	.0	.9	1.1		6.0
NE	.6	.0	1.4	.0		4.8
E	8.6	4.9	16.7	.9		4.3
SE	19.3	18.1	9.8	7.2		3.8
S	.9	1.1	1.1	.0		4.1
SW	.0	1.1	1.1	2.3		6.5
W	.0	.0	.0	.0		.0
NW	.0	1.1	.0	1.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	26	23	27	11	87	4.2
TOT PCT	29.9	26.4	31.0	12.6	100.0	

TABLE

PERCENTAGE FREQUENCY OF CEILING
AND OCCURRENCE OF NH <5/8

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
.0	.0	.0	3.4	2.9	3.2	.0	.0	.0	.0	.0	22.1
.0	.0	1.1	3.4	5.7	1.4	.0	.0	.0	.0	.0	42.5
.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	2.0
.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	1.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	1	7	8	6	0	0	0	0	0	65
.0	.0	1.1	8.0	9.2	6.9	.0	.0	.0	.0	.0	87
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.0	.0	.0	.0	.0	.0	.0
>2000	5.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9
>1000	14.9	16.1	16.1	16.1	16.1	16.1	16.1	16.1
>600	23.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1
>300	23.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3
>150	23.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3
>0	23.0	25.3	25.3	25.3	25.3	25.3	25.3	25.3
TOTAL	20	22	22	22	22	22	22	22

TOTAL NUMBER OF OBS: 87

PCT FREQ NH <5/8: 74.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	0 BSCD	TOTAL OBS
2.2	16.3	27.2	19.6	10.9	10.9	3.3	4.3	5.4	.0	.0	92

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972

JUNE

APEA 0014 NORTHEAST JAVA SEA
4.8S 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.6
2<5	PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	.6	.1	.4	.0	.0	.0	.0	.0	1.2	1.2
	TOT %	.6	.0	.6	.1	.4	.0	.0	.0	.0	.0	1.7	1.7
5<10	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	3.8	6.9	.3	.6	.0	.0	.0	.0	11.6	11.6
	TOT %	.0	.0	3.8	7.5	.3	.6	.0	.0	.0	.0	12.1	12.1
10+	PCP	.0	.0	.9	.3	.0	.0	.6	.0	.0	.0	1.7	1.7
	NO PCP	1.6	1.6	26.4	46.0	5.1	1.7	.6	.9	.0	.0	83.8	83.8
	TOT %	1.6	1.6	27.3	46.2	5.1	1.7	.6	1.4	.0	.0	85.5	85.5
TOT OBS													173
TOT PCT		2.2	1.6	31.6	54.5	5.8	2.3	.6	1.4	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.8	.0	.0	.0	.0	.0	.0	1.0	1.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.8	.0	.0	.0	.0	.0	.0	1.0	1.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.7	1.6	.0	.0	.0	.0	.0	.0	2.3	2.3
	11-21	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.7	1.6	.0	.0	.0	.0	.0	.0	2.6	2.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	1.0	.7	.2	.0	.0	.0	.0	.0	2.3	2.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	1.0	.7	.2	.0	.0	.0	.0	.0	2.3	2.3
5<10	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	.7
	4-10	.0	.0	1.1	2.3	.2	.3	.0	.0	.0	.0	3.9	3.9
	11-21	.0	.0	1.1	2.1	.0	.2	.2	.0	.0	.0	3.6	3.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	2.9	4.4	.2	.5	.2	.0	.0	.0	8.2	8.2
10+	0-3	.3	.7	1.6	1.7	.7	.3	.0	.3	.0	.3	5.9	5.9
	4-10	.7	1.6	19.5	25.6	2.3	1.0	.3	.0	.0	.0	51.0	51.0
	11-21	.2	.3	7.3	18.1	1.4	.0	.2	.0	.0	.0	27.5	27.5
	22+	.0	.0	.2	1.1	.0	.0	.3	.0	.0	.0	1.6	1.6
	TOT %	1.2	2.3	20.5	46.6	4.3	1.3	.3	.8	.0	.3	85.9	85.9
TOT OBS													306
TOT PCT		1.6	2.9	33.3	54.1	4.7	1.8	.3	.8	.0	.3	100.0	

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1858-1972AREA 0014 NORTHEAST JAVA SPA
4.05 113.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 294	200 399	300 599	400 899	500 1999	600 3499	700 4999	800 6499	900 7999	1000+ 8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.7	11.5	11.5	.0	.0	.0	.0	.0	30.7	69.2	26
06009	.0	.0	.0	10.0	6.7	6.7	.0	.0	.0	.0	.0	23.3	76.7	30
12015	.0	.0	.0	6.3	18.8	.0	.0	.0	.0	.0	.0	25.0	75.0	16
18021	.0	.0	5.0	5.0	.0	5.0	.0	.0	.0	.0	.0	15.0	85.0	20
TOT	0	0	1	7	8	6	0	0	0	0	0	22	70	92
PCT	.0	.0	1.1	7.6	8.7	6.3	.0	.0	.0	.0	.0	23.9	76.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+ TOTAL OBS
00003	1.0	.0	9.8	1.0	2.9	91.4
06009	.0	.0	1.4	2.9	8.7	87.0
12015	1.6	.0	3.1	3.1	12.5	79.7
18021	1.5	.0	1.5	2.9	11.8	82.4
TOT	3	0	8	7	25	306
PCT	1.0	.0	2.6	2.3	8.2	85.9

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	8.0	24.0	68.0	25
06009	.0	.0	13.8	13.8	72.4	29
12015	.0	.0	6.7	20.0	73.3	15
18021	.0	5.6	11.1	5.6	83.3	19
TOT	0	1	9	14	64	87
PCT	.0	1.1	10.3	16.1	73.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.1	1.1	.0	.0	2	2.1
85/89	.0	.0	.0	.0	5.3	3.2	.0	.0	8	8.4
80/84	.0	.0	.0	1.1	3.2	41.1	33.7	3.2	78	42.1
75/79	.0	.0	.0	.0	1.1	.0	3.2	3.2	7	7.4
TOTAL	0	0	0	1	10	43	35	6	95	100.0
PCT	.0	.0	.0	1.1	10.5	45.3	36.8	6.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NH	VAR	CALM
.0	.0	.0	.8	.3	1.1	.0	.0	.0	.0	.0
.0	.0	.0	4.7	2.6	.0	1.1	.0	.0	.0	.0
1.3	1.8	24.5	45.8	5.3	2.1	.0	1.1	.0	.0	.0
1.1	.0	1.1	3.2	.0	1.1	.0	1.1	.0	.0	.0
2.4	1.8	31.1	51.8	6.6	4.2	.0	2.1	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	91	85	82	79	77	72	82.2	133
06009	91	90	87	83	79	73	73	82.7	104
12015	87	86	84	82	79	76	76	81.5	102
18021	84	83	83	82	78	77	77	81.3	92
TOT	94	88	85	82	79	76	72	82.0	431

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	7.7	48.2	42.3	.0	77	26		
06009	.0	.0	22.6	38.7	32.3	6.3	76	31		
12015	.0	.0	5.9	47.1	41.2	5.9	80	17		
18021	.0	.0	.0	52.4	33.3	14.3	81	21		
TOT	0	1	10	43	35	6	78	95		

JUNE

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1898-1972

TABLE 17

AREA 0014 NORTHEAST JAVA SEA
4.6S 113.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	1.3	.0	.0	2	.0	1.3
6	.0	.0	.0	.0	.7	1	.0	.7
5	.0	.0	.7	.0	.7	2	.0	1.3
4	.0	.0	.7	2.0	.0	4	.0	2.6
3	.0	.0	.0	1.3	.0	2	.0	1.3
2	.0	.0	3.9	1.3	.0	8	.0	5.2
1	.0	.0	2.2	.0	.0	8	.0	5.2
0	.0	1.3	24.8	1.3	.0	42	.0	27.5
-1	.0	1.3	14.4	.0	.0	24	.0	15.7
-2	.0	2.6	17.6	.0	.0	31	.0	20.3
-3	.0	1.3	5.2	.0	.0	10	.0	6.5
-4	.0	3.9	2.0	.0	.0	9	.0	5.9
-5	.0	3.9	.7	.0	.0	7	.0	4.6
-6	.0	.7	.0	.0	.0	1	.0	.7
-7/-8	.7	.7	.0	.0	.0	2	.0	1.3
TOTAL	1	24	117	9	2	153	0	153
PCT	.7	15.7	76.5	5.9	1.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	13.9	1.2	.0	.0	.0	15.1	1.6	16.3	3.6	.0	.0	.0	21.4
3-4	.0	1.2	5.6	.0	.0	.0	6.7	.0	5.2	15.3	.0	.0	.0	20.6
5-6	.0	.0	8.3	.0	.0	.0	8.3	.0	.0	1.5	.0	.0	.0	17.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.6	.0	.0	3.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TNT PCT	.0	13.1	13.1	.0	.0	.0	30.2	1.6	21.4	38.5	1.6	.0	.0	63.1

PERIOD: (OVER-ALL) 1949-1972

JUNE

AREA 0014 NORTHEAST JAVA SEA
4.05 113.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	3.6	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	.0	.0	.0	.0	.0	.0	0.0
1-2	1.6	33.3	4.8	.0	.0	.0	39.7	
3-4	.0	6.3	22.2	.0	.0	.0	28.6	
5-6	.0	.0	27.0	.0	.0	.0	27.0	
7	.0	.0	3.2	1.6	.0	.0	4.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	39.7	57.1	1.6	.0	.0	100.0	63

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.1	27.9	17.4	14.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	3
6-7	.0	.0	7.0	7.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.0	2.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
TOTAL	7	25	23	23	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	3
PCT	8.1	29.1	26.7	26.7	9.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

JULY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FUSG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	1.6	1.8	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	98.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.5	.0	.0	.0	.0	.0	1.1	.0	.5	.0	.0	.0	.0	98.4
TOT OBS:	185														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
0600Z	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	98.0
1201Z	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	95.3
1802Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	97.7
TOT PCT	.5	.5	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	97.8
TOT OBS:	186														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.0	.2	.0	.0	.0	.0		2	6.0		.0	.0	.0	.0	.0	.0	4.3	.0
NE	.0	1.1	.5	.0	.0	.0		1.6	9.6		1.2	1.7	.0	.0	.0	.0	6.5	3.4
E	.4	11.9	16.8	.2	.0	.0		29.3	11.5		27.1	27.8	31.8	26.5	29.2	35.4	22.8	33.8
SE	1.5	29.7	25.1	.3	.0	.0		56.5	10.6		60.1	56.7	55.4	58.3	57.1	51.7	57.6	52.0
S	.6	5.6	2.3	.0	.0	.0		8.5	8.5		7.9	8.9	7.4	9.8	11.3	8.5	7.6	6.1
SW	.2	.8	.3	.0	.0	.0		1.3	7.5		.0	1.1	5.4	3.0	.0	.0	1.1	1.4
W	.1	.2	.0	.2	.0	.0		.5	12.8		.0	1.7	.0	.0	.0	1.2	.0	.7
NW	.5	.2	.0	.0	.0	.0		.7	3.4		2.4	.0	.0	.0	.0	1.2	.0	1.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		1.2	2.2	.0	1.5	1.7	.0	.0	1.4
TOT OBS	22	225	213	3	0	0		473	10.4		82	90	37	66	60	41	23	74
TOT PCT	4.7	49.7	45.0	.6	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	HOUR (GMT)			
		7-16	17-27	28-40	06 09						12 15	18 21		
N	.2	.0	.0	.0	.0	.0	.2	6.0	.0	.0	.0	.0	.0	1.0
NE	.3	1.3	.0	.0	.0	.0	1.6	9.6	1.5	.5	.5	.4	.1	4.1
E	2.4	24.0	2.9	.0	.0	.0	29.3	11.5	27.5	28.4	31.7	31.2		
SE	9.9	41.1	5.3	.2	.0	.0	56.5	10.6	58.3	57.3	55.7	53.4		
S	3.5	4.5	.5	.0	.0	.0	8.5	8.5	8.4	9.0	10.1	6.4		
SW	.9	.2	.2	.0	.0	.0	1.3	7.5	.6	3.9	.0	1.3		
W	.2	.1	.2	.0	.0	.0	.5	12.8	.9	.0	.5	.5		
NW	.5	.2	.0	.0	.0	.0	.7	3.4	1.2	.0	.5	1.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.3						1.3	.0	1.7	1.0	1.0	1.0		
TOT OBS	91	338	43	1	0	473		10.4	172	103	101	97		
TOT PCT	19.2	71.5	9.1	.2	.0	100.0			100.0	100.0	100.0	100.0		

JULY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					6+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	1.7	4.1	41.3	51.2	1.7	0	0	11.0	100.0	172
0600Z	1.0	3.0	55.5	44.7	0	0	0	10.2	100.0	103
1215Z	1.0	2.0	57.4	50.6	0	0	0	10.3	100.0	101
1822Z	1.0	3.1	55.7	40.2	0	0	0	10.2	100.0	97
TOT	6	16	235	213	3	0	0	10.4		473
PCT	1.3	3.4	49.7	45.0	.6	0	0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.4	.0		6.0
NE	.0	.0	1.4	.0		5.0
E	10.3	14.0	8.6	.0		3.4
SE	18.5	14.0	24.3	1.4		3.9
S	1.4	3.1	.0	.0		2.6
SW	.0	.3	.0	.0		3.0
W	.0	.0	.0	.0		.0
NW	.0	.0	1.4	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OAS	22	23	27	1	73	3.8
TOT PC:	30.1	31.5	37.0	1.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 5/8$ BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	MM	<5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	DBS
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
.0	.0	.0	.0	2.7	.7	.7	.0	.0	.0	.0	28.8	
.0	.0	.0	1.4	9.6	.7	.7	.0	.0	.0	.0	45.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1	1	1	0	0	0	0	.0	
.0	.0	.0	1	11	1	0	0	0	0	0	.59	
.0	.0	.0	1.4	15.1	1.4	1.4	.0	.0	.0	80.8	100.0	75

TABLE 7

CUMULATIVE PCT PREO OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (INH 24/8) AND VSBY (INH)

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR ≥50VD	OR ≥0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >2000	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OR >1000	16.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8
OR >600	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
OR >300	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
OR >150	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
OR >0	17.8	19.2	19.2	19.2	19.2	19.2	19.2	19.2
TOTAL	19	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 73

PCT FREQ NH 45/81 80.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.2	22.1	27.3	16.9	9.1	11.7	6.5	.0	1.3	.0	77

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

JULY

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	1.1	5.0	12.8	2.7	.0	.0	.0	.0	.0	21.6	
	TOT %	.0	1.1	5.5	12.8	2.7	.0	.0	.0	.0	.0	22.2	
10+	PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.5	.5	24.5	45.8	4.7	.4	.3	.5	.0	.0	77.3	
	TOT %	.5	.5	25.0	45.8	4.7	.4	.3	.5	.0	.0	77.8	
TOT OBS													185
TOT PCT		.5	1.6	30.5	58.6	7.4	.4	.3	.5	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.9	.3	.0	.0	.0	.0	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.1	.5	.0	.0	.0	.0	.0	.0	1.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.3	.2	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.3	.2	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.9	
	11-21	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.5	.8	.3	.0	.0	.0	.0	.0	1.5	
5<10	0-3	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.6	
	4-10	.0	.3	1.4	4.0	.5	.0	.0	.0	.0	.0	6.1	
	11-21	.0	.3	2.4	3.5	.6	.0	.0	.0	.0	.0	6.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.6	3.8	7.6	1.5	.0	.0	.0	.0	.0	13.3	
10+	0-3	.0	.0	.0	.9	.3	.0	.0	.0	.0	.9	2.1	
	4-10	.3	.6	10.7	23.5	4.1	.4	.2	.3	.0	.0	40.2	
	11-21	.0	.0	14.8	24.4	1.0	.0	.0	.0	.0	.0	40.2	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.6	25.8	48.9	5.4	.4	.2	.3	.0	.9	82.8	
TOT OBS													326
TOT PCT		.3	1.2	31.2	58.1	7.4	.4	.2	.3	.0	.9	100.0	

JULY

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970AREA 0014 NORTHEAST JAVA SEA
4.78 114.0E

TABLE 10

PERCENT FREQUENCY OF CRICING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.3	15.8	5.3	5.3	.0	.0	.0	31.6	68.4	19
06009	.0	.0	.0	.0	23.8	.0	.0	.0	.0	.0	23.8	76.2	21
12015	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	5.9	94.1	17
18021	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	10.5	89.5	19
TOT	0	0	0	1	11	1	1	0	0	0	14	62	76
PCT	.0	.0	.0	1.3	14.5	1.3	1.3	.0	.0	.0	18.4	81.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	.0	.8	1.7	10.1	85.7	119
06009	1.5	.0	1.5	.0	20.6	76.5	68
12015	1.4	.0	.0	2.8	14.1	81.7	71
18021	1.4	.0	.0	1.4	11.6	85.5	69
TOT	5	0	2	5	44	271	327
PCT	1.5	.0	.6	1.5	13.5	82.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.3	26.3	68.4	19
06009	.0	.0	.0	26.3	73.7	19
12015	.0	.0	.0	6.3	93.3	16
18021	.0	.0	.0	10.5	89.5	19
TOT	0	0	1	13	59	73
PCT	.0	.0	1.4	17.8	80.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.0	.0	.0	.0	1	1.0
85/89	.0	.0	.0	.0	2.1	3.1	.0	.0	5	5.2
80/84	.0	.0	.0	.0	3.1	47.4	34.0	2.1	84	86.6
75/79	.0	.0	.0	.0	.0	2.1	5.2	.0	7	7.2
TOTAL	0	0	0	0	6	51	38	2	97	100.0
PCT	.0	.0	.0	.0	6.2	52.6	39.2	2.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
.0	.0	1.8	3.4	.0	.0	.0	.0	.0	.0
1.0	1.0	27.6	49.2	6.7	.0	.0	1.0	.0	.0
.0	.0	.5	5.7	.8	.3	.0	.0	.0	.0
1.0	1.0	29.9	59.3	7.5	.3	.0	1.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	84	82	78	76	75	81.6	171
06009	91	90	87	82	79	73	73	82.5	101
12015	84	83	83	81	78	75	75	80.9	102
18021	84	83	82	81	78	76	76	80.5	97
TOT	91	87	84	81	78	76	73	81.4	471

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	9.1	54.5	36.4	.0	77	22
06009	.0	.0	.0	.0	14.8	48.1	37.0	.0	77	27
12015	.0	.0	.0	.0	88.7	25.9	7.4	.0	79	27
18021	.0	.0	.0	.0	40.9	59.1	.0	.0	81	22
TOT	0	0	0	0	52	38	2	79	98	

PERIOD: (PRIMARY) 1919-1970
(OVER-ALL) 1858-1970

JULY

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	1.2	1.2	1.2	6	.0	3.6
4	.0	.0	3.0	1.8	.0	8	.0	4.8
2	.0	.0	13.3	1.2	.0	24	.0	14.5
1	.0	.0	10.3	.0	.0	17	.0	10.3
0	.0	3.6	27.9	.0	.0	52	.0	31.5
-1	.0	4.8	7.9	.0	.0	21	.0	12.7
-2	.0	6.1	7.3	.0	.0	22	.0	13.3
-3	.0	2.4	1.2	.0	.0	6	.0	3.6
-4	.0	2.4	1.2	.0	.0	6	.0	3.6
-5	.6	.6	.0	.0	.0	2	.0	1.2
TOTAL	1		121		3	163	0	163
PCT	.6	20.0	73.3	4.2	1.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	2.0	.0	.0	.0	3.6	.0	4.6	18.9	.0	.0	.0	23.5
3-4	.0	5.1	18.4	.0	.0	.0	23.5	.0	7.1	18.3	.0	.0	.0	23.5
5-6	.0	1.5	3.6	.0	.0	.0	5.1	.0	2.6	10.7	.0	.0	.0	13.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	24.0	.0	.0	.0	32.1	.0	14.3	45.9	.0	.0	.0	60.2

PERIOD: (OVER-ALL) 1963-1970

JULY

TABLE 18 (CONT)

AREA 0014, NORTHEAST JAVA SEA
4.75 114.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.5	1.5	.0	.0	.0	3.1	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.5	.0	.0	.0	3.1	.0	.5	.0	.0	.0	.0	.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.2	22.4	.0	.0	.0	.0	34.6
3-4	.0	12.2	34.7	.0	.0	.0	.0	46.9
5-6	.0	.0	14.3	.0	.0	.0	.0	14.3
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	28.6	71.4	.0	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1952-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	18.8	29.7	9.4	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
6-7	.0	3.1	12.5	10.9	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	.0	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	14	27	14	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
PCT	.0	21.9	42.2	21.9	14.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0014 NORTHEAST JAVA SFA
4.75 119.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHNR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FDG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	97.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	1.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	100.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	44.4	.0	.0	.0	.0	44.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.3	1.3	1.3	.0	.0	.6	.0	95.6
TOT OBS:	159														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHNR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	2.2	2.2	.0	.0	.0	.0	.0	4.4	.0	2.2	.0	.0	.0	.0	93.3
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	95.2
1201Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.0	93.9
1802Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.6	.0	.0	.0	.0	.0	1.3	1.3	1.3	.0	.0	.6	.0	95.6
TOT OBS:	159														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.0	.4	.2	.0	.0	.0		.7	8.6	.0	1.0	2.9	1.6	.0	.0	.0	.0	
NE	.0	.4	.2	.1	.0	.0		.8	10.5	.0	.0	.0	.0	1.9	1.3	1.9	2.5	
E	.1	13.3	14.9	.6	.0	.0		28.9	11.3	25.7	28.1	18.6	34.7	22.1	36.3	19.4	39.2	
SE	1.0	33.3	26.8	.3	.0	.0		61.5	10.4	65.0	63.0	74.3	57.3	64.4	52.3	65.7	53.3	
S	.4	4.4	2.1	.1	.0	.0		7.0	9.2	.0	7.3	4.3	6.5	9.6	10.0	9.3	5.0	
SW	.0	.4	.0	.0	.0	.0		.4	7.0	2.0	.3	.0	.0	.0	.0	.0	.0	
W	.0	.0	.2	.0	.0	.0		.2	17.0	1.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.1	.0	.0	.0		.5	3.6	.3	.0	.0	.0	1.9	.0	3.7	.0	
VAR	.4	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	9	234	199	9	0	0	447		10.5		75	96	35	62	12	40	27	
TOT PCT	2.0	52.3	44.5	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.2	.4	.0	.0	.0	.7	8.6	.0	2.1	.0	.0
NE	.3	.3	.1	.0	.0	.8	10.5	.0	.0	1.6	2.5
E	2.1	24.4	2.3	.0	.0	28.9	11.3	27.0	28.9	28.3	33.0
SE	8.4	50.1	3.0	.0	.0	61.5	10.4	63.9	63.4	59.2	57.2
S	2.1	4.6	.3	.0	.0	7.0	9.2	6.7	5.7	9.8	6.3
SW	.2	.2	.0	.0	.0	.4	7.0	1.2	.0	.0	.0
W	.0	.0	.2	.0	.0	.2	17.0	.4	.0	.0	.0
NW	.4	.0	.1	.0	.0	.5	3.6	.1	.0	1.1	1.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	62	358	27	0	447		10.5	171	97	92	87
TOT PCT	13.9	80.1	6.0	.0	.0	100.0		100.0	100.0	100.0	100.0

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	.0	1.2	48.0	49.1	1.8	.0	.0	11.1	100.0	171
06614	.0	3.1	39.2	56.7	1.0	.0	.0	11.3	100.0	97
12615	.0	2.2	60.9	37.0	.0	.0	.0	9.5	100.0	92
18621	.0	2.3	66.7	29.9	1.1	.0	.0	9.5	100.0	87
TOT	0	9	234	199	5	0	0	10.5		447
PCT	.0	2.0	52.3	44.5	1.1	.0	.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

WIND DIR	WIND SPEED					TOTAL OBS	MEAN CLOUD COVER	ANNUAL AVERAGE OF WIND DIRECTION										TOTAL OBS
	0-2	3-4	5-7	8 & OBS	10-12			149	150	300	600	1000	2000	3500	5000	6500	8000+	
N	.0	.0	.0	1.3		8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3		
NE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
E	1.0	8.7	3.2	1.3		4.2	.0	.0	.0	.0	.0	2.6	.0	.0	.0	9.6		
SE	30.4	12.5	23.7	5.1		3.5	.0	.0	.0	3.8	2.6	.0	.0	.0	.0	65.4		
S	4.5	1.3	3.8	.0		3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6		
SW	.0	.0	1.3	.0		6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3		
W	.0	.0	.0	1.0		8.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0		
NW	.0	.0	1.3	1.6		6.6	.0	.0	.0	.0	.3	.0	.0	.0	.0	2.6		
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALL	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT OBS	28	16	26	8		78	.0	.0	.0	.0	.0	.0	.0	.0	.0	78		
PCT	35.9	20.5	33.3	10.3		100.0	.0	.0	.0	.0	3.8	2.6	.0	.0	.0	100.0		

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH 24/5) AND VSOBY (NH)

CEILING (FEET)	VSBY (NM)							
	• DR ≥10	• DR ≥5	• DR ≥2	• DR ≥1	• DR ≥1/2	• DR ≥1/4	• DR ≥50YD	• DR ≥0
• DR ≥6500	.0	.0	.0	.0	.0	.0	.0	.0
• DR ≥5010	.0	.0	.0	.0	.0	.0	.0	.0
• DR ≥3500	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
• DR ≥2000	3.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4
• DR ≥1000	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• DR ≥607	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• DR ≥300	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• DR ≥157	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
• DR ≥0	7.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3
TOTAL	6	8	8	8	8	8	8	8

PCT FREQ NH <5/8: 89.7

PERCENTAGE FREQ UP LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	085CD	TOTAL 085
17.3	19.8	23.5	17.3	12.3	3.7	2.5	.0	3.7	.0	81

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1910-1972

AUGUST

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.6	.0	.0	.0	.5	.2	.0	.0	1.3	
	NO PCP	.0	.0	3.8	7.2	.3	.0	.0	.0	.0	.0	11.3	
	TOT %	.0	.0	4.4	7.2	.3	.0	.5	.2	.0	.0	12.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.3	21.2	36.4	6.9	.6	1.3	.0	.0	.0	87.4	
	TOT %	.6	.3	21.2	36.4	6.9	.6	1.3	.0	.0	.0	87.4	
TOT OBS													159
TOT PCT		.6	.3	25.6	63.7	7.2	.6	.5	1.4	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.0	.7	.0	.0	.0	.0	.0	.0	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	1.0	2.6	.2	.0	.0	.0	.0	.0	3.7	
	11-21	.0	.0	1.4	1.4	.0	.0	.3	.1	.0	.0	3.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	2.4	3.9	.2	.0	.3	.1	.0	.0	6.8	
10+	0-3	.0	.0	.0	.3	.0	.0	.0	.7	.0	.0	1.0	
	4-10	.0	.2	13.8	33.2	4.6	.3	.0	.0	.0	.0	52.0	
	11-21	.3	.3	10.2	24.0	2.9	.0	.0	.0	.0	.0	37.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	24.0	57.5	7.5	.3	.0	.7	.0	.0	90.8	
TOT OBS													294
TOT PCT		.3	.3	27.7	62.4	7.7	.3	.3	.8	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972AREA 0014 NORTHEAST JAVA SEA
4.7S 113.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 200	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	12.5	6.3	.0	.0	.0	18.8	81.3	16
06009	.0	.0	.0	.0	4.0	4.0	.0	.0	.0	.0	8.0	92.0	23
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	21
18021	.0	.0	.0	.0	10.5	.0	9.3	.0	.0	.0	19.8	84.2	19
TOT	0	0	0	0	3	3	2	0	0	0	8	73	81
PCT	.0	.0	.0	.0	3.7	3.7	2.5	.0	.0	.0	9.9	90.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.9	.0	.0	.9	7.5	89.6	106
06009	1.6	.0	.0	.0	7.9	90.5	63
12015	.0	.0	.0	1.7	1.7	96.6	39
18021	3.0	.0	.0	.0	9.1	87.9	66
TOT	5	0	0	2	20	267	294
PCT	1.7	.0	.0	.7	6.8	90.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	20.0	80.0	15
06009	.0	.0	.0	8.3	91.7	24
12015	.0	.0	.0	.0	100.0	20
18021	.0	.0	.0	15.8	84.2	19
TOT	0	0	0	8	70	78
PCT	.0	.0	.0	10.3	89.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	1.3	2.6	.0	3	3.8
80/84	.0	.0	.0	.0	2.6	48.7	20.5	5.1	60	76.9
75/79	.0	.0	.0	.0	.0	7.7	9.0	2.6	15	19.2
TOTAL	0	0	0	0	2	45	25	6	78	100.0
PCT	.0	.0	.0	.0	2.6	57.7	32.1	7.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	2.2	1.6	.0	.0	.0	.0	.0	.0
80/84	.0	.0	11.5	55.8	5.8	1.3	.0	2.6	.0	.0
75/79	1.3	.0	1.3	15.4	.0	.0	1.0	.3	.0	.0
TOTAL	1.3	.0	15.1	72.8	5.8	1.3	1.0	2.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	88	84	82	79	78	77	81.5	170
06009	90	88	86	82	79	77	77	82.1	63
12015	87	85	83	80	79	76	76	80.6	39
18021	85	84	82	80	77	75	75	79.9	66
TOT	91	87	85	81	77	77	75	81.1	445

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	53.3	33.3	13.3	80	15		
06009	.0	.0	4.2	75.0	16.7	4.2	77	24		
12015	.0	.0	5.3	52.6	31.6	10.5	80	19		
18021	.0	.0	.0	45.0	50.0	5.0	81	20		
TOT	0	0	2	45	25	6	79	78		

PERIOD: (PRIMARY) 1919-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.7	1	.0	.7
6	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	1.4	2	.0	1.4
4	.0	.0	2.8	2.1	7	.0	4.9
3	.0	.0	1.4	.7	3	.0	2.1
2	.0	.7	7.0	.7	12	.0	8.4
1	.0	2.1	7.7	.0	14	.0	9.8
0	.0	10.5	23.1	.0	48	.0	33.6
-1	.0	7.7	4.9	.0	18	.0	12.6
-2	.0	9.8	8.4	.0	26	.0	14.2
-3	.0	2.8	.7	.0	5	.0	3.5
-4	.7	3.5	.0	.0	6	.0	4.2
TOTAL	1	81			143	0	143
PCT	.7	37.1	56.6	5.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0

WGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	2.7	.0	.0	.0	4.7	.0	.0	38.5	5.4	.0	.0	.0	43.9	.0
3-4	.0	2.7	4.7	.0	.0	.0	7.4	.0	.0	5.4	11.5	.0	.0	.0	16.9	.0
5-6	.0	.0	4.1	.0	.0	.0	4.1	.0	.0	.0	9.5	.0	.0	.0	9.5	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	11.5	.0	.0	.0	16.2	.0	43.9	26.4	.0	.0	.0	.0	70.3	.0

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0014 NORTHEAST JAVA SEA
4.75 113.98

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.7	2.7	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	5.4	.0	.0	.0	8.1	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.7	.0	.0	.0	.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	40.5	10.8	.0	.0	.0	51.4	.0
3-4	.0	10.8	24.3	.0	.0	.0	35.1	.0
5-6	.0	.0	13.5	.0	.0	.0	13.5	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	51.4	48.6	.0	.0	.0	100.0	37

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	18.5	53.8	15.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
6-7	.0	1.4	4.7	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
10-11	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	1
INDET	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	3
TOTAL	4	14	32	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	6.3	21.9	50.0	20.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1897-1969

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.1	.0	.0	.0	96.7
SE	.0	.0	1.1	.0	.0	.0	.0	1.1	.3	1.3	1.1	.0	.0	.0	96.2
S	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.6	3.7	.0	.0	.0	85.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	.6	.0	.0	.0	.0	.6	.6	1.9	1.3	.0	.0	.0	95.6
TOT OBS:	159														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
0600Z	.0	.0	2.2	.0	.0	.0	.0	2.2	2.2	.0	2.2	.0	.0	.0	93.3
1201Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
1802Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0	.0	90.7
TOT PCT	.0	.0	.6	.0	.0	.0	.0	.6	.6	1.9	1.3	.0	.0	.0	95.6
TOT OBS:	159														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.1	.3	.0	.0	.0	.0		.4	5.2	.4	.0	.0	.0	.0	.0	1.3	.0	.0
E	.8	19.2	11.1	.1	.0	.0		27.3	10.2	20.7	25.4	28.7	19.1	19.4	25.0	43.2	37.5	.8
SE	.9	26.2	21.3	1.1	.0	.0		59.5	10.4	66.8	62.3	52.2	65.5	62.0	59.0	46.2	54.2	.3
S	.5	6.6	3.0	.0	.0	.0		10.1	9.0	9.3	12.3	10.3	12.7	14.8	8.8	4.5	5.8	.0
SW	.5	.2	.0	.0	.0	.0		.8	3.9	1.4	.0	3.7	.0	.0	.0	3.0	.0	.0
W	.2	.0	.0	.0	.0	.0		.2	3.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0
NW	.2	.0	.0	.0	.0	.0		.2	2.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.4	.0	2.9	1.8	3.7	.0	3.0	.0	.0
TOT OBS	20	243	147	9	0	0	415		10.0	70	69	34	55	34	46	33	60	
TOT PCT	4.8	58.6	35.4	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	12	18
N	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
NE	.3	.1	.0	.0	.0			.4	5.2	.4	.2	.6	.5	.5
E	4.3	21.6	1.3	.0	.0			27.3	10.2	23.0	22.8	26.1	39.5	.3
SE	8.3	46.6	4.6	.0	.0			59.5	10.4	64.6	60.4	59.0	31.3	.3
S	2.6	7.4	.1	.0	.0			10.1	9.0	10.8	11.8	12.2	5.4	.0
SW	.8	.0	.0	.0	.0			.8	3.9	.7	1.4	.0	1.1	.0
W	.2	.0	.0	.0	.0			.2	3.0	.0	.8	.0	.0	.0
NW	.2	.0	.0	.0	.0			.2	2.0	.0	.0	.0	1.1	.0
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.4	.0	2.2	2.1	1.1
TOT OBS	76	314	25	0	0	415			10.0	139	89	94	93	
TOT PCT	18.3	75.7	6.0	.0	.0			100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT REQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.7	2.2	54.0	41.0	2.2	.0	.0	10.7	100.0	139
0600	2.2	4.5	48.3	44.9	.0	.0	.0	10.5	100.0	89
1200	2.1	2.1	69.1	25.3	1.1	.0	.0	9.3	100.0	94
1800	1.1	5.4	64.5	28.0	1.1	.0	.0	9.1	100.0	93
TOT	.6	14	243	147	3	0	0	10.0		415
PCT	1.4	3.4	58.6	35.4	1.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	10.2	7.9	11.8	.0		3.8
SE	17.4	12.2	24.3	.0		3.8
S	1.3	1.0	5.9	.0		5.1
SW	.0	.0	1.6	2.6		7.2
W	.0	.0	1.0	.0		6.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	2.6	.0		5.5
TOT OBS	22	16	36	2	76	4.1
TOT PCT	28.9	21.1	47.4	2.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	2.0	.0	.0	1.3	.0	.0	.0	26.6
SE	.0	.0	.0	.3	4.6	1.3	2.6	.0	.0	.0	.0	45.1
S	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	7.2
SW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	3.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
TOT OBS	22	16	36	2	5	1	2	1	0	0	85	76
TOT PCT	28.9	21.1	47.4	2.6	6.6	1.3	2.6	1.3	.0	.0	85.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
>2000	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>1000	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
>600	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
>300	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
>150	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
>0	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
TOTAL	10	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 76

PCT FREQ NH <5/8: 85.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.3	15.1	31.4	11.6	16.3	9.3	2.3	3.5	1.2	86

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

SEPTEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	3.6	6.4	.0	.6	.0	.0	.0	.0	.0	10.7
	TOT %	.0	.0	3.6	6.4	.0	.6	.0	.0	.0	.0	.0	10.7
10+	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
	NO PCP	.0	.2	24.7	50.6	8.2	1.4	.5	.0	.0	1.9	87.4	
	TOT %	.0	.2	24.7	51.3	8.2	1.4	.5	.0	.0	1.9	88.1	
TOT OBS													159
TOT PCT		.0	.2	28.6	58.3	2.5	2.0	.5	.0	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.3	1.4	.0	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	1.6	.0	.0	.0	.0	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.7	.7	.3	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.7	.7	.3	.0	.0	.0	.0	.0	1.7	
5<10	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	4-10	.0	.0	1.4	2.4	.0	.0	.0	.0	.0	.0	3.8	
	11-21	.0	.0	1.0	1.8	.0	.0	.0	.0	.0	.0	2.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	2.3	4.3	.0	.3	.0	.0	.0	.0	6.9	
10+	0-3	.0	.0	.3	.4	.3	.4	.3	.0	.0	1.0	2.8	
	4-10	.0	.3	13.3	30.5	5.3	.3	.0	.0	.0	.0	49.7	
	11-21	.0	.0	13.4	20.3	2.4	.0	.0	.0	.0	.0	36.1	
	22+	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.3	27.2	51.4	8.0	.8	.3	.0	.0	1.0	88.9	
TOT OBS													289
TOT PCT		.0	.3	30.9	58.1	8.3	1.1	.3	.0	.0	1.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

AREA 0014 NORTHEAST JAVA SEA
4.75 113.92

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	4.8	95.2	21
06009	.0	.0	.0	4.2	20.8	.0	4.2	.0	.0	.0	29.2	70.8	24
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	17
18021	.0	.0	.0	4.8	.0	4.8	.0	4.8	.0	.0	14.3	85.7	21
TOT	0	0	0	2	5	1	2	1	0	0	11	72	83
PCT	.0	.0	.0	2.4	6.0	1.2	2.4	1.2	.0	.0	13.3	86.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.0	.0	.0	2.0	6.1	89.8	98
06009	.0	.0	.0	1.6	12.9	85.5	62
12015	3.4	.0	.0	1.7	3.4	91.4	58
18021	2.9	1.4	.0	1.4	7.7	86.6	70
TOT	6	1	0	5	20	256	288
PCT	2.1	.3	.0	1.7	6.9	88.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	0 1	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	4.8	95.2	21
06009	.0	.0	4.3	27.3	68.2	22
12015	.0	.0	.0	.0	100.0	14
18021	.0	.0	5.3	10.5	84.2	19
TOT	0	0	2	9	65	76
PCT	.0	.0	2.6	11.8	85.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.3	.0	.0	1.0	.0	.0	.0	.0	1	1.0
85/89	.0	.0	.0	.0	3.0	4.0	1.0	1.0	9	9.1
80/84	.0	.0	.0	.0	2.0	36.4	34.3	7.1	79	79.8
75/79	.0	.0	.0	.0	.0	3.0	6.1	1.0	10	10.1
TOTAL	0	0	0	1	5	43	41	9	99	100.0
PCT	.0	.0	.0	1.0	5.1	43.4	41.4	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	3.3	4.8	.0	.3	.8	.0	.0	.0
.0	.3	25.5	41.4	6.6	3.0	.0	.0	.0	3.0
.0	.0	1.5	7.1	1.5	.0	.0	.0	.0	.0
.0	.3	31.3	53.3	8.1	3.3	.8	.0	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	84	82	79	78	77	81.9	133
06009	92	90	89	82	80	79	78	83.1	87
12015	84	83	83	81	79	77	77	80.8	93
18021	84	82	82	80	77	76	76	80.1	89
TOT	92	90	85	81	79	77	76	81.5	402

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	46.2	46.2	7.7	81	26		
06009	.0	3.4	17.2	48.3	24.1	6.9	76	29		
12015	.0	.0	.0	44.4	30.0	5.6	81	18		
18021	.0	.0	.0	34.6	30.0	15.4	84	26		
TOT	0	1	5	43	41	9	80	99		

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1857-1969

SEPTEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
9/10	.0	.0	.0	1.4	2	.0	1.4
7/8	.0	.0	.0	1.4	2	.0	1.4
5	.0	.0	3.5	.7	6	.0	4.3
4	.0	2.1	.7	.0	4	.0	2.8
3	.0	.0	1.4	.0	2	.0	1.4
2	.0	12.1	1.4	.0	19	.0	13.5
1	1.4	4.3	.0	.0	8	.0	5.7
0	3.5	25.3	.0	.0	41	.0	29.1
-1	3.5	12.8	.0	.0	23	.0	16.3
-2	7.1	7.1	.0	.0	20	.7	13.5
-3	2.1	2.1	.0	.0	6	.0	4.3
-4	2.1	.0	.0	.0	3	.0	2.1
-5	2.1	.0	.0	.0	3	.0	2.1
-6	1.4	.0	.0	.0	2	.0	1.4
TOTAL	33	93	10	5	141	1	140
PCT	23.4	66.0	7.1	3.5	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
2	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	4.3
3-4	.0	8.2	4.8	.0	.0	.0	13.0	.0	13.5	5.3	.0	.0	.0	18.8
5-6	.0	9.8	4.3	.0	.0	.0	10.1	.0	2.9	15.4	.0	.0	.0	18.3
7	.0	.0	8.7	.0	.0	.0	8.7	.0	1.9	2.9	.0	.0	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.9	17.8	.0	.0	.0	31.7	.0	22.6	23.6	.0	.0	.0	46.2

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 113.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	1.4	.0	.0	.0	4.3	3.8	1.9	.0	.0	.0	.0	5.8
3-4	.0	.0	1.4	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	2.9	.0	.0	.0	10.1	3.8	1.9	.0	.0	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	5.8	.0	.0	.0	.0	11.5	
1-2	3.8	26.9	11.5	.0	.0	.0	42.3	
3-4	.0	11.5	21.2	.0	.0	.0	32.7	
5-6	.0	1.9	11.5	.0	.0	.0	13.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	46.2	44.2	.0	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1953-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	33.8	28.0	15.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3
6-7	.0	1.3	3.9	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
INDET	2.6	2.6	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	3
TOTAL	3	31	25	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	3.9	40.3	32.3	23.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1859-1971

OCTOBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.18

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
N	28.6	.0	14.3	.0	.0	.0	.0	42.9	.0	.0	.0	.0	.0	.0	97.1
NE	.0	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	90.9
E	.0	1.1	.0	.0	.0	.0	.0	1.1	.0	1.0	1.1	.0	1.1	.0	95.1
SE	.9	.5	.0	.0	.0	.0	.0	1.4	.0	3.0	2.3	.0	1.4	.0	91.8
S	.0	.0	5.1	.0	.0	.0	.0	5.1	.0	5.1	.0	.0	5.1	.0	84.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	93.2
W	11.8	5.9	.0	.0	.0	.0	.0	17.6	4.4	11.8	.0	.0	.0	.0	72.1
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	80.0
TOT PCT	2.3	.9	.9	.0	.0	.0	.0	4.2	.5	3.3	1.4	.0	1.9	.0	89.2
TOT OBS:	213														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0000	1.9	.0	1.9	.0	.0	.0	.0	3.8	1.9	1.9	1.9	.0	1.9	.0	90.4
0600	1.8	.0	1.8	.0	.0	.0	.0	3.6	.0	.0	1.8	.0	1.8	.0	92.9
1200	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0	4.0	.0	92.0
1800	5.2	1.7	.0	.0	.0	.0	.0	6.9	.0	10.3	.0	.0	.0	.0	82.8
TOT PCT	2.3	.9	.9	.0	.0	.0	.0	4.2	.5	3.2	1.4	.0	1.9	.0	89.4
TOT OBS:	216														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-6	7-10	11-15	16-20	21-25	26-30				00	03	06	09	12	15	18
N	.2	.6	.0	.0	.0	.0	.0	.9	5.5	.7	.7	2.3	.0	.0	.0	2.5	2.0
NE	.4	1.5	.1	.0	.0	.0	.0	2.0	5.3	1.3	.7	3.5	.0	4.0	5.8	.0	1.0
E	1.4	13.2	6.6	.6	.0	.0	.0	21.6	9.3	20.0	22.3	15.7	22.4	19.4	21.5	18.1	32.8
SE	1.0	39.4	13.3	.3	.0	.0	.0	53.9	9.2	55.3	61.5	51.2	39.9	50.4	51.7	45.6	48.5
S	1.0	8.9	1.1	.0	.0	.0	.0	11.0	7.4	11.3	9.8	15.1	13.2	13.4	9.3	10.0	5.9
SW	.2	7.0	.3	.0	.0	.0	.0	2.5	6.5	3.0	.7	1.2	1.5	4.2	4.7	3.8	2.0
W	1.6	2.4	.4	.0	.0	.0	.0	4.4	6.0	7.0	3.7	5.2	1.5	3.5	.0	11.9	3.9
NW	.1	.8	.2	.0	.0	.0	.0	1.1	8.7	.0	1.7	3.5	.0	1.4	.0	.6	2.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.3	.0	2.3	1.5	2.8	7.0	7.5	2.0
TOT OBS	38	320	103	4	0	0	0	465		75	74	43	68	71	43	40	51
TOT PCT	8.2	69.8	22.2	.9	.0	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.6	.2	.0	.0	.0	.9	5.5	.7	.9	.0	2.2	.5
NE	1.7	.3	.0	.0	.0	2.0	5.3	1.3	1.4	5.3	.5	.5
E	7.8	12.1	1.6	.2	.0	21.6	9.3	20.0	19.8	20.2	28.4	.5
SE	13.0	39.4	1.5	.1	.0	53.9	9.2	55.3	50.5	50.9	47.3	.5
S	4.5	6.5	.0	.0	.0	11.0	7.4	11.3	14.0	11.8	7.7	.5
SW	1.8	.7	.0	.0	.0	2.5	6.5	3.0	1.4	4.4	2.7	.5
W	2.8	1.6	.0	.0	.0	4.4	6.0	7.0	2.9	2.2	7.4	.5
NW	.3	.8	.0	.0	.0	1.1	8.7	.0	1.4	.9	1.4	.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
CALM	2.6					2.6	.0	1.3	1.8	4.4	.5	.5
TOT OBS	164	286	14	1	0	465		75	74	43	40	51
TOT PCT	35.3	61.5	3.0	.2	.0	100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 185R-1971

OCTOBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.7	6.0	71.1	21.5	.7	.0	.0	8.5	100.0	149
0600	1.8	4.5	85.8	20.1	1.8	.0	.0	9.0	100.0	111
1200	4.4	6.1	73.7	14.9	.9	.0	.0	7.8	100.0	114
1800	4.4	5.5	62.6	27.5	.0	.0	.0	8.5	100.0	91
TOT	12	26	320	103	4	0	0	8.4		465
PCT	2.6	5.6	68.8	22.2	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CBS	MEAN CLOUD COVER
N	.0	.0	.9	.0		7.0
NE	.0	.0	2.6	.0		5.6
E	7.3	1.7	7.9	.0		3.8
SE	13.7	17.7	17.3	.9		3.7
S	4.7	3.6	3.6	.9		3.4
SW	.0	1.1	.4	1.1		5.8
W	.0	4.7	2.6	3.2		5.4
NW	.0	.2	1.5	.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.0	.0		3.5
TOT OBS	31	34	44	8	117	4.1
TOT PCT	26.5	29.1	37.6	6.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
E	.0	.0	.0	1.5	.9	.6	.0	.0	.0	.0	12.4	
SE	.0	.0	.0	.2	3.4	1.1	1.9	.9	.0	.0	42.1	
S	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	12.0	
SW	.0	.0	.0	.9	.2	.0	.0	.2	.0	.0	1.3	
W	.0	.0	.0	.0	2.4	.6	.6	.0	.0	.0	6.8	
NW	.0	.0	.0	.9	.0	.2	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	31	34	44	8	117							117
TOT PCT	26.5	29.1	37.6	6.8	100.0							100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0
>6500	.0	.9	.9	.9	.9	.9	.9	.9	.9	.9
>5000	1.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>3500	6.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
>2000	7.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
>1000	12.8	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
>800	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
>300	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
>150	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
>0	15.4	17.9	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
TOTAL	18	21	23	23	23	23	23	23	23	23

TOTAL NUMBER OF OBS: 117

PCT FREQ NH <5/8: 80.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
11.4	17.9	22.0	19.5	9.8	12.2	.8	4.1	2.4	123

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1858-1971

OCTOBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.5	1.9	.0
	TOT %	.5	.0	.7	.7	.0	.0	.0	.0	.0	.5	2.3	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0
5<10	PCP	.7	.2	.2	.7	.0	.0	.0	.5	.0	.0	1.9	.0
	NO PCP	.5	.7	3.4	7.6	1.6	.7	1.4	.0	.0	.5	14.4	.0
	TOT %	.7	.9	3.6	8.3	1.6	.7	1.4	.5	.0	.5	16.3	.0
10+	PCP	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.9	.0
	NO PCP	.9	1.6	17.0	41.1	7.0	1.4	5.2	1.9	.0	1.4	77.3	.0
	TOT %	.9	1.6	17.0	41.1	7.5	1.4	5.6	1.9	.0	1.4	78.4	.0
TOT OBS													
TOT PCT													
		1.6	2.6	21.4	50.1	9.2	2.4	8.0	2.3	.0	2.3	100.0	213

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0
	4-10	.3	.0	.3	.6	.0	.0	.0	.0	.0	.0	1.2	.0
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.6	.6	.0	.0	.0	.0	.0	.3	1.8	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0
	4-10	.0	.0	.6	.5	.2	.0	.0	.0	.0	.0	1.2	.0
	11-21	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.6	.5	.2	.6	.6	.0	.0	.3	2.1	.0
5<10	0-3	.0	.0	.0	.3	.3	.0	.6	.0	.0	.3	1.3	.0
	4-10	.5	.6	1.5	4.8	.8	.2	.3	.0	.0	.0	8.6	.0
	11-21	.0	.0	1.5	1.0	.0	.3	.0	.3	.0	.0	3.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.6	3.0	6.1	1.1	.5	.9	.3	.0	.3	13.2	.0
10+	0-3	.3	.6	.8	.8	.3	.1	1.1	.1	.0	1.2	5.2	.0
	4-10	.0	.8	10.3	33.1	7.9	2.1	2.6	1.2	.0	.0	58.0	.0
	11-21	.0	.0	5.8	11.4	1.3	.2	.0	.0	.0	.0	18.7	.0
	22+	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.9	.0
	TOT %	.3	1.4	17.6	45.6	9.5	2.4	3.7	1.2	.0	1.2	82.8	.0
TOT OBS													
TOT PCT													
		1.1	2.0	21.8	52.7	10.7	2.8	9.2	1.5	.0	2.1	100.0	326

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1858-1971

OCTOBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 399	300 599	400 1999	500 3499	600 4999	700 6499	800 7999	900+ 8000+	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	8.0	4.0	4.0	.0	.0	.0	16.0	84.0	25
06009	.0	.0	.0	8.8	11.8	.0	.0	2.9	.0	.0	23.5	76.5	34
12015	.0	.0	.0	7.1	.0	.0	3.6	3.6	.0	3.6	17.9	82.1	28
18021	.0	.0	.0	.0	5.7	2.9	8.6	.0	.0	.0	17.1	82.9	35
TOT PCT	0 .0	0 .0	0 .0	5 4.1	8 6.6	2 1.6	5 4.1	2 1.6	0 .0	1 .8	23 18.9	99 81.1	122 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	2.1	.0	12.4	85.6	97
06009	.0	.0	1.9	2.6	11.5	84.6	78
12015	.0	.0	1.3	2.5	16.5	79.7	79
18021	.0	.0	2.7	4.0	14.7	78.7	75
TOT PCT	0 .0	0 .0	4 1.8	7 2.1	45 13.7	271 82.4	329 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	16.0	84.0	25
06009	.0	.0	9.4	19.6	75.0	32
12015	.0	.0	7.1	10.7	82.1	28
18021	.0	.0	6.3	12.5	81.3	32
TOT PCT	0 .0	0 .0	7 6.0	16 13.7	94 80.3	117 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
85/89	.0	.0	.0	.0	3.6	4.4	1.5	.0	13	9.5
80/84	.0	.0	.0	.0	1.5	51.1	27.7	4.4	116	84.7
75/79	.0	.0	.0	.0	.0	.7	3.6	.7	7	5.1
TOTAL	0	0	0	0	7	78	45	7	137	100.0
PCT	.0	.0	.0	.0	5.1	58.9	32.8	5.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
85/89	.0	.4	2.4	6.2	.5	.0	.0	.0	.0	.0
80/84	1.5	2.2	17.3	43.2	8.4	2.0	5.8	1.1	.0	2.9
75/79	.0	.0	.4	1.8	.0	.9	1.3	.7	.0	.0
TOTAL	1.5	2.6	20.3	52.0	8.9	2.9	7.1	1.8	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	85	82	80	78	77	82.5	149
06009	90	89	87	83	80	78	78	83.2	111
12015	85	84	84	82	80	78	78	82.1	116
18021	84	83	83	81	79	75	75	81.2	91
TOT	90	88	85	82	80	77	75	82.3	467

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	55.2	31.0	13.8	81	29		
06009	.0	.0	15.2	57.6	24.2	3.0	76	33		
12015	.0	.0	5.3	57.9	34.2	2.6	78	38		
18021	.0	.0	.0	59.8	43.6	2.6	80	39		
TOT	0	0	7	78	47	7	79	139		

OCTOBER

PERIOD: (PRIMARY) 1920-1971
(OVER-ALL) 1958-1971

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WQ FOG
9/10	.0	.0	.0	.6	.6	2	.0	1.1
4	.0	.0	2.2	1.7	.0	7	.0	3.9
2	.0	.0	7.8	1.1	.0	16	.0	8.9
1	.0	.0	8.9	.6	.0	17	.0	8.9
0	.0	1.1	30.7	1.1	.0	59	1.1	31.8
-1	.0	.6	7.3	1.1	.0	16	.0	8.9
-2	.0	4.5	19.6	.0	.0	43	.0	24.0
-3	.0	.6	3.9	.0	.0	8	.0	4.5
-4	.0	2.2	1.7	.0	.0	7	.0	3.9
-6	.0	.6	.6	.0	.0	2	.0	1.1
-7/-8	.6	.0	.0	.0	.0	1	.0	.6
-9/-10	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	2	17	148	11	1	179	3	176
PCT	1.1	9.5	82.7	6.1	.6	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	3.8	.0	.0	.0	.0	5.8
1-2	.0	10.1	1.4	.0	.0	.0	11.5	.0	15.9	2.4	.0	.0	.0	18.3
3-4	.0	1.9	11.1	.0	.0	.0	13.0	.0	19.4	10.1	.0	.0	.0	29.5
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.4	1.4	.0	.0	2.9	.0	.0	.0	.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.9	19.4	2.9	.0	.0	32.2	.0	37.0	19.4	1.0	.0	.0	53.4

PERIOD: (OVER-ALL) 1963-1971

OCTOBER
TABLE 18 (CONT)AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	3.8	.0	.0	.0	.0	3.8
3-6	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	.0	.0	.0	.0	4.8	.0	3.8	.0	.0	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	96.2
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.8	7.7	.0	.0	.0	.0	11.5	
1-2	.0	32.7	3.8	.0	.0	.0	36.5	
3-6	.0	19.2	23.1	.0	.0	.0	42.3	
5-6	.0	.0	3.8	.0	.0	.0	3.8	
7	.0	.0	.0	1.9	.0	.0	1.9	
8-9	.0	.0	1.9	1.9	.0	.0	3.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	59.6	32.7	3.8	.0	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.8	37.9	25.2	3.9	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	2
6-7	.0	1.0	4.9	4.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
8-9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.0	2.6	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	2
TOTAL	43	35	9	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	3
PCT	8.7	41.7	34.0	8.7	4.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	3.3	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	94.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	97.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	90.0
SW	2.7	8.2	.0	.0	.0	.0	.0	11.0	1.4	2.7	.0	.0	.0	.0	84.9
W	5.7	1.4	.0	.0	.0	.0	.0	7.1	5.0	12.1	.0	.0	.0	.0	78.7
NW	7.1	.0	2.4	.0	.0	.0	.0	9.4	.0	15.3	.0	.0	.0	.0	75.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	11.1	.0	77.8
TOT PCT	2.3	1.1	.6	.0	.0	.0	.0	4.0	1.1	6.3	.0	.0	.6	.0	88.6
TOT OBS:	175														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	2.2	2.2	.0	.0	.0	.0	.0	4.3	2.2	6.5	.0	.0	2.2	.0	84.8
06009	2.4	.0	2.4	.0	.0	.0	.0	4.8	2.4	2.4	.0	.0	.0	.0	90.5
12015	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	6.5	.0	.0	.0	.0	91.3
18021	4.7	.0	.0	.0	.0	.0	.0	4.7	.0	9.3	.0	.0	.0	.0	88.4
TOT PCT	2.3	1.1	.6	.0	.0	.0	.0	4.0	1.1	6.2	.0	.0	.6	.0	88.7
TOT OBS:	177														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	2.5	.1	.0	.0	.0		3.7	5.9	4.9	1.7	5.0	5.3	3.0	3.8	.0	4.1	
NE	2.3	4.4	.2	.0	.0	.0		7.0	4.7	3.6	5.9	9.0	7.9	3.8	14.1	4.2	10.7	
E	1.8	14.1	1.5	.0	.0	.0		17.3	6.8	12.3	20.3	7.0	14.9	15.2	23.1	8.3	29.5	
SE	3.1	16.2	1.5	.0	.0	.0		20.8	6.6	23.1	32.2	21.0	30.7	15.2	11.5	2.1	17.2	
S	2.2	7.7	.4	.0	.0	.0		10.3	5.4	18.9	13.6	4.0	9.6	8.7	6.4	9.4	6.6	
SW	2.4	6.2	.6	.0	.0	.0		9.1	5.3	9.7	5.5	15.0	8.8	8.7	10.3	18.8	5.7	
W	1.3	9.1	4.4	.5	.0	.0		15.3	9.0	14.0	8.1	26.0	13.2	21.2	14.1	28.1	10.7	
NW	1.2	7.0	1.2	.0	.0	.0		9.4	7.3	3.9	9.3	9.0	7.9	18.2	6.4	20.8	5.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.1							7.1	.0	11.7	3.4	4.0	1.8	6.1	10.3	8.3	9.8	
TOT OBS	92	274	40	2	0	0	408		6.2	77	39	25	57	66	39	24	61	
TOT PCT	22.5	67.2	9.8	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.2	1.3	.1	.0	.0			3.7	5.9	3.5	5.2	3.3	2.9
NE	5.9	1.1	.0	.0	.0			7.0	4.7	4.6	8.2	7.6	8.8
E	9.2	8.1	.0	.0	.0			17.3	6.8	15.8	12.5	18.1	23.5
SE	11.2	9.6	.0	.0	.0			20.8	6.6	27.0	27.7	13.8	12.9
S	8.1	2.0	.2	.0	.0			10.3	5.4	15.4	7.9	7.9	7.4
SW	7.2	1.9	.0	.0	.0			9.1	5.3	7.9	10.7	9.3	9.4
W	6.5	7.5	1.2	.0	.0			15.3	9.0	11.4	17.1	18.6	15.6
NW	4.6	4.4	.4	.0	.0			9.4	7.3	6.3	8.2	13.8	10.0
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	7.1							7.1	.0	8.1	2.4	7.6	9.4
TOT OBS	233	147	8	0	0	408		6.2		130	82	105	85
TOT PCT	62.0	36.0	2.0	.0	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY: 1922-1969
(COVER-ALL) 1869-1969

NOVEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	8.1	11.0	70.6	9.6	.7	.0	.0	6.5	100.0	136
0600	2.4	17.1	73.2	7.3	.0	.0	.0	6.1	100.0	82
1200	7.6	19.0	60.0	12.4	1.0	.0	.0	6.3	100.0	103
1800	9.4	16.5	64.7	9.4	.0	.0	.0	5.7	100.0	85
TOT	29	63	274	40	2	0	0	6.2		408
PCT	7.1	15.4	67.2	9.8	.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.0	1.0	3.1		7.5
NE	.0	.0	2.3	.3		6.3
E	3.8	3.6	2.6	.0		3.4
SE	1.3	4.6	6.4	1.0		5.2
S	1.0	3.6	.0	1.0		3.8
SW	1.0	5.6	3.8	5.6		5.7
W	.0	6.9	9.4	9.4		6.0
WN	1.0	2.3	4.6	7.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	3.1	2.0	2.0	.0		3.4
TOT OBS	11	28	32	27	98	5.4
TOT PCT	11.2	28.6	32.7	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/3)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	
SE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	12.2	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	
SW	.0	.0	.0	1.0	1.3	.5	.0	.0	.3	.0	13.0	
W	.0	.0	.0	2.8	3.8	4.6	.0	.0	.8	.0	14.3	
WN	.0	.0	.0	1.3	1.3	.5	.0	.0	.0	.0	12.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.0	.5	.0	1.0	.0	.0	.0	5.1	
TOT OBS	0	0	0	7	8	1	0	1	0	0	74	98
TOT PCT	.0	.0	.0	7.1	8.2	7.1	.1	.0	1.0	.0	75.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>2000	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
>1000	13.3	14.3	17.3	17.3	17.3	17.3	17.3	17.3
>600	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
>300	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
>150	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
>0	17.3	20.4	24.5	24.5	24.5	24.5	24.5	24.5
TOTAL	17	20	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 98

PCT FREQ NM <5/8: 75.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	9.8	12.5	26.0	18.3	10.6	4.8	9.6	3.8	8.7	.0	104

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

NOVEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	1.7	.0
	NO PCP	.0	.0	.0	.0	.0	.9	1.9	.1	.0	.0	2.3	.0
	TOT %	.0	.0	.0	.0	.0	1.1	2.4	.4	.0	.0	4.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.7	.3	.6	.0	.0	1.1	.0
	NO PCP	1.0	.4	.9	3.1	.9	.6	.6	1.1	.0	.0	9.1	.0
	TOT %	1.0	.4	.9	3.1	.9	.9	.9	1.7	.0	.0	10.3	.0
10+	PCP	.3	.0	.0	.0	.0	.0	.6	.3	.0	.0	1.1	.0
	NO PCP	4.1	5.9	14.1	16.6	4.9	8.4	16.3	9.7	.0	4.6	84.6	.0
	TOT %	4.4	5.9	14.1	16.6	4.9	8.4	16.9	10.0	.0	4.6	85.7	.0
TOT OBS													175
TOT PCT													5.4 6.3 15.0 19.7 5.7 10.4 20.1 12.1 .0 5.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	4-10	.0	.0	.5	.5	.0	.5	.2	.0	.0	.0	.0	1.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	1.0	.5	.5	.0	.5	.2	.0	.0	.0	.0	2.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.7	.2	.0	.4	1.0	.3	.0	.0	.0	2.7
	11-21	.0	.0	.0	.0	.0	.4	.6	.0	.0	.0	.0	1.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.7	.2	.0	.8	1.6	.3	.0	.0	.0	3.7
5<10	0-3	.5	.2	.0	.3	.0	.0	.0	.0	.0	1.0	.0	2.0
	4-10	.4	.3	.8	1.9	.3	.5	.7	1.4	.0	.0	.0	6.4
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.9	.4	.8	2.2	.3	.5	1.0	1.4	.0	1.0	.0	8.8
10+	0-3	.3	1.0	1.6	1.6	1.9	3.0	1.4	1.4	.0	6.4	.0	18.6
	4-10	2.6	4.6	11.3	15.5	6.1	4.9	9.1	5.8	.0	.0	.0	60.1
	11-21	.0	.0	1.2	.8	.0	.0	3.3	.4	.0	.0	.0	5.7
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
	TOT %	3.0	5.7	14.3	17.9	7.9	7.9	14.2	7.6	.0	6.4	.0	84.8
TOT OBS													296
TOT PCT													3.9 7.3 16.3 20.8 8.4 9.7 17.0 9.2 .0 7.4 100.0

NOVEMBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH $\geq 4/8$) AND
OCCURRENCE OF NH $\leq 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $\leq 5/8$ ANY HGT	TOTAL OBS
00003	.0	.0	.0	17.9	10.7	14.3	.0	.0	.0	.0	42.9	57.1	28
06009	.0	.0	.0	9.1	9.1	9.1	.0	.0	.0	.0	27.3	72.7	22
12015	.0	.0	.0	.0	3.4	.0	3.4	.0	3.4	.0	10.3	89.7	29
18021	.0	.0	.0	.0	9.5	4.8	.0	.0	.0	.0	14.3	85.7	21
TOT	0	0	0	7	8	7	1	0	1	0	24	76	100
PCT	.0	.0	.0	7.0	8.0	7.0	1.0	.0	1.0	.0	24.0	76.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	$\leq 1/2$	$1/2 < 1$	$1 < 2$	$2 < 3$	$3 < 10$	$10+$	TOTAL OBS
00003	2.1	.0	.0	6.3	6.3	85.3	95
06009	3.3	.0	.0	1.6	11.5	83.6	61
12015	2.6	.0	.0	1.3	9.2	86.8	76
18021	3.0	.0	.0	4.5	10.6	81.8	66
TOT	8	0	0	11	27	292	298
PCT	2.7	.0	.0	3.7	9.1	84.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OK
CEILING HGT (FEET, NH $\geq 4/8$) BY HOUR

HOUR (GMT)	≤ 150 ≤ 500	≤ 600 ≤ 1	≤ 1000 ≤ 5	$1000+$ ANDS+	NH $\leq 5/8$ AND 5+	TOTAL OBS
00003	.0	.0	25.0	17.9	57.1	28
06009	.0	.0	14.3	14.3	71.4	21
12015	.0	.0	.0	10.7	89.3	28
18021	.0	.0	.0	14.3	85.7	21
TOT	0	0	10	14	76	98
PCT	.0	.0	10.2	14.3	75.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	5.2	7.3	.0	.0	12	12.5
80/84	.0	.0	.0	.0	3.1	36.5	39.6	1.0	77	80.2
75/79	.0	.0	.0	.0	.0	.0	3.1	4.2	7	7.3
TOTAL	0	0	0	0	8	42	41	5	96	100.0
PCT	.0	.0	.0	.0	8.3	43.8	42.7	5.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	2.1	1.8	2.3	1.0	2.1	2.9	.3	.0	.0
80/84	2.6	.5	8.3	12.2	7.8	9.1	20.1	13.3	.0	6.3
75/79	1.0	.5	.0	1.0	.0	1.0	2.9	.8	.0	.0
TOTAL	3.6	3.1	10.2	19.6	8.9	12.2	25.8	14.3	.0	6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	86	84	79	76	72	83.0	136
06009	88	87	87	83	77	75	75	83.1	82
12015	87	86	85	82	80	78	78	82.3	107
18021	84	83	83	82	79	77	77	81.9	85
TOT	89	88	86	83	79	76	72	82.6	410

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	4.2	41.7	41.7	12.5	81	24
06009	.0	.0	.0	.0	27.3	31.8	31.8	9.1	77	22
12015	.0	.0	.0	.0	3.2	31.6	45.2	.0	79	31
18021	.0	.0	.0	.0	42.9	37.1	.0	.0	80	21
TOT	0	0	0	0	8	42	43	5	79	98

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1869-1969

NOVEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DSR F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	H FOG	NO FOG
4	.0	.0	.0	.0	2.5	4	.0	2.5
3	.0	.0	.0	.0	.6	1	.0	.6
2	.0	.0	.0	2.5	1.9	7	.0	4.2
1	.0	.0	.0	1.9	.6	4	.0	2.5
0	.0	.0	.0	20.5	3.1	38	.0	23.6
-1	.0	.0	.6	12.4	1.2	23	.0	14.2
-2	.0	.0	2.5	24.2	1.2	45	.0	28.0
-3	.0	.0	1.9	4.3	.0	10	.0	6.2
-4	.0	.0	3.7	8.7	.0	20	.0	12.4
-5	.6	.0	1.2	.6	.0	4	.0	2.5
-6	.0	.0	1.2	.0	.0	2	.0	1.2
-7/-8	.0	.0	.6	.6	.0	2	.0	1.2
-9/-10	.0	.6	.0	.0	.0	1	.0	.6
TOTAL	1	19	19	18	18	161	0	161
PCT	.6	11.8	122	11.2	100.0	100.0		

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.0	.0	.0	.0	2.2	.0	.7	.0	.0	.0	.0	.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	2.9
1-2	.0	9.1	2.9	.0	.0	.0	8.1	2.9	14.7	.0	.0	.0	.0	17.5
3-4	.0	8.1	.0	.0	.0	.0	8.1	.0	.7	2.9	.0	.0	.0	3.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	2.9	.0	.0	.0	16.2	5.9	15.4	2.9	.0	.0	.0	24.3

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 114.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	.0	5.9
3-4	.0	2.9	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9	.0	2.9	2.9	.0	.0	.0	.0	.0	5.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
1-2	.0	8.8	.0	.0	.0	.0	8.8	.0	.0	11.8	.0	.0	.0	.0	.0	11.8	
3-4	.0	.1	2.2	.0	.0	.0	2.4	.0	.0	3.7	.0	.0	.0	.0	.0	4.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	14.0	2.2	.0	.0	.0	16.2	.0	.0	16.2	.7	.0	.0	.0	.0	16.9	83.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	17.6	2.9	.0	.0	.0	.0	20.6	
1-2	5.9	44.1	2.9	.0	.0	.0	52.9	
3-4	.0	20.6	5.9	.0	.0	.0	26.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	67.6	8.0	.0	.0	.0	100.0	34

PERIOD: (OVER-ALL) 1952-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	14.6	28.0	20.7	7.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	2
6-7	1.2	.0	2.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
INDET	11.0	6.1	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
TOTAL	22	28	23	7	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82
PCT	26.8	34.1	29.0	8.5	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1900-1972
(COVER-ALL) 1871-1972

DECEMBER

AREA 0014 NORTHEAST JAVA SEA
4.7S 113.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN CHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	89.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
S	11.5	.0	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0	88.5
SW	5.7	8.6	.0	.0	.0	.0	.0	14.3	11.4	1.4	.0	.0	.0	.0	72.9
W	7.5	8.1	.0	.0	.0	.0	.0	13.6	3.3	4.7	.0	.0	.0	.0	78.5
NW	16.3	4.1	.0	.0	.0	.0	.0	20.3	7.3	10.6	.0	.0	.0	.0	61.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	25.0	.0	.0	.0	.0	62.3
TOT PCT	8.8	4.4	.0	.0	.0	.0	.0	13.2	5.1	5.9	.0	.0	.0	.0	75.7
TOT OBS:	136														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
03003	16.2	.0	.0	.0	.0	.0	.0	16.2	8.1	.0	.0	.0	.0	.0	75.7
06009	5.9	8.8	.0	.0	.0	.0	.0	14.7	8.8	.0	.0	.0	.0	.0	76.5
12015	3.2	3.2	.0	.0	.0	.0	.0	6.5	3.2	9.7	.0	.0	.0	.0	80.6
18021	7.5	5.0	.0	.0	.0	.0	.0	12.5	2.5	1	.0	.0	.0	.0	70.0
TOT PCT	8.5	4.2	.0	.0	.0	.0	.0	12.7	5.6	6.3	.0	.0	.0	.0	75.4
TOT OBS:	142														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.8	5.7	.7	.0	.0	.0		8.3	6.3	1.7	12.2	15.2	8.8	8.7	11.5	.0	5.0	
NE	.7	1.7	.0	.0	.0	.0		2.4	5.3	.0	2.2	4.5	5.9	.0	.0	.0	7.5	
E	2.9	1.9	.0	.0	.0	.0		4.9	3.6	1.7	4.4	6.1	.0	4.3	7.7	.0	17.5	
SE	.4	1.0	.0	.0	.0	.0		1.3	4.1	1.7	2.2	.0	.0	5.4	.0	.0	.0	
S	.3	2.8	.0	.0	.0	.0		4.1	5.0	3.4	4.4	2.3	5.9	3.3	7.7	3.8	5.0	
SW	1.8	11.0	3.2	.0	.0	.0		16.0	8.2	22.4	12.2	12.9	32.4	14.1	30.8	9.6	7.5	
W	2.8	19.7	13.2	.0	.0	.0		35.7	9.3	31.9	36.7	34.8	41.2	31.5	34.6	51.9	20.0	
NW	2.3	17.5	4.2	1.0	.5	.0		20.5	10.1	23.3	21.1	21.2	5.9	23.9	7.7	26.9	22.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.8							6.8	.0	13.8	4.4	3.0	.0	8.7	.0	7.7	15.0	
TOT OBS	43	116	44	2	1	0	206	7.8		29	45	33	17	23	13	36	20	
TOT PCT	20.9	56.3	21.4	1.0	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	00 03	HOUR (GMT)			
		7-16	17-27	28-40	41+					06 09	12 15	18 21	
N	4.6	3.6	.0	.0	.0		8.3	6.3	8.1	13.0	9.7	2.2	
NE	1.7	.7	.0	.0	.0		2.4	5.3	1.4	5.0	.0	3.3	
E	4.4	.5	.0	.0	.0		4.9	3.6	3.4	4.0	5.6	7.6	
SE	1.3	.0	.0	.0	.0		1.3	4.1	2.0	.0	3.5	.0	
S	3.3	.8	.0	.0	.0		4.1	5.0	4.1	3.5	4.9	4.3	
SW	6.7	8.6	.7	.0	.0		16.0	8.2	16.2	19.5	20.1	8.7	
W	12.3	21.1	2.3	.0	.0		35.7	9.3	34.8	37.0	32.6	38.0	
NW	7.0	11.2	1.3	1.0	.0		20.5	10.1	22.0	16.0	18.1	25.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.8						6.8	.0	8.1	2.0	5.6	10.9	
TOT OBS	99	96	9	2	0	206		7.8	74	50	36	46	
TOT PCT	48.1	46.6	4.4	1.0	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

DECEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 113.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CAIM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00203	8.1	12.2	56.8	23.0	.0	.0	.0	7.7	100.0	74
06209	2.0	12.0	62.0	22.0	2.0	.0	.0	8.3	100.0	50
12215	5.6	25.0	50.0	13.9	2.8	.0	.0	7.6	100.0	36
18221	10.9	10.9	54.3	23.9	.0	.0	.0	7.5	100.0	46
TOT	14	29	116	44	2	1	0	7.8		206
PCT	6.8	14.1	56.3	21.4	1.0	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.3	4.0	.0		5.6
NE	.0	.0	.0	.0		.0
E	.0	.0	.0	2.6		8.0
SE	.0	.0	.0	1.6		8.0
S	.0	.0	1.3	2.0		7.2
SW	.0	.0	6.3	3.0		6.9
W	4.9	6.3	17.4	14.5		5.9
NW	.3	2.0	14.8	6.6		6.6
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	2.6	5.3		6.2
TOT OBS	5	8	36	27	76	6.3
TOT PCT	6.6	10.5	47.4	35.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ NH <5/8	TOTAL ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.3	
SW	.0	.0	.0	2.6	2.6	1.3	.0	.0	.0	.0	2.3	
W	.0	.0	1.3	1.3	6.9	1.0	1.0	.0	.0	.0	29.6	
NW	.0	.0	.0	2.6	3.0	3.0	.0	.0	.0	.0	15.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	
TOT OBS	0	0	1	5	11	8	2	0	0	0	49	76
TOT PCT	.0	.0	1.3	6.6	14.5	10.5	2.6	.0	.0	.0	64.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10	>5	>2	VSBY (NH) >1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>2000	9.0	11.3	12.8	12.8	12.8	12.8	12.8	12.8
>1000	20.5	24.4	25.6	25.6	25.6	25.6	25.6	25.6
>600	26.9	30.8	32.1	32.1	32.1	32.1	32.1	32.1
>300	26.9	32.1	33.3	33.3	33.3	33.3	33.3	33.3
>150	26.9	32.1	33.3	33.3	33.3	33.3	33.3	33.3
>0	26.9	32.1	33.3	33.3	33.3	33.3	33.3	33.3
TOTAL	21	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 76

PCT FREQ NH <5/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	1.2	6.0	28.6	11.9	17.9	9.5	6.0	4.8	14.3	84

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

DECEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 113.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.0	.4	.7	1.9	.0	.0	3.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.4	.7	1.9	.0	.0	3.0	
5<10	PCP	.0	.0	.0	.0	.0	1.5	4.1	1.9	.0	.0	7.4	
	NO PCP	1.3	1.1	1.1	.0	.6	2.8	6.7	3.5	.0	.7	17.8	
	TOT %	1.3	1.1	1.1	.0	.6	4.3	10.7	5.4	.0	.7	25.2	
10+	PCP	.0	.0	.0	.2	.6	.0	.6	.9	.0	.7	3.0	
	NO PCP	5.7	1.1	2.6	.7	3.7	8.3	26.9	14.6	.0	4.4	68.1	
	TOT %	5.7	1.1	2.6	.9	4.3	8.3	27.4	15.6	.0	5.2	71.1	
TOT OBS		7.0	2.2	4.4	.9	4.8	13.0	38.9	22.8	.0	5.9	100.0	135
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.7	.0	.0	.0	.0	.4	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.7	.0	.0	.0	.0	.4	.0	.0	1.4	
2<5	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.4	.7	1.1	.0	.0	2.1	
	11-21	.0	.0	.0	.0	.0	.4	3.2	.7	.0	.0	4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.0	.0	.7	3.9	1.8	.0	.0	7.0	
5<10	0-3	1.2	1.1	1.1	.0	.0	.0	.0	.2	.0	.7	4.2	
	4-10	.0	.0	.0	.0	.5	3.3	7.6	4.0	.0	.0	15.3	
	11-21	.0	.0	.0	.0	.0	.7	2.6	.9	.0	.0	4.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	1.1	1.1	.0	.5	4.0	10.2	5.1	.0	.7	23.9	
10+	0-3	.4	.0	1.4	.2	1.9	1.6	3.0	1.4	.0	4.9	14.8	
	4-10	5.1	1.1	1.1	.7	2.1	4.6	13.9	8.1	.0	.0	38.6	
	11-21	.0	.0	.0	.0	.0	1.8	9.2	3.2	.0	.0	14.1	
	22+	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	2.1	
	TOT %	5.5	1.1	2.5	.9	4.0	7.9	26.1	14.8	.0	4.9	67.6	
TOT OBS		7.0	2.1	4.9	.9	4.6	12.7	40.1	22.0	.0	5.6	104.0	142
TOT PCT													

DECEMBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

AREA 0014 NORTHEAST JAVA SEA
4.73 113.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH 34/8) AND
OCCURRENCE OF NH 45/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH 45/8 ANY HGT	TOTAL OBS
00009	.0	.0	.0	4.8	19.0	14.3	.0	.0	.0	.0	38.1	61.9	21
06009	.0	.0	.0	9.5	23.8	9.5	.0	.0	.0	.0	42.9	57.1	21
12015	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	.0	20.0	80.0	20
18021	.0	.0	.0	10.0	5.0	10.0	.0	.0	.0	.0	30.0	70.0	20
TOT	0	0	1	5	11	8	2	0	0	0	27	55	82
PCT	.0	.0	1.2	6.1	13.4	9.8	2.4	.0	.0	.0	32.9	67.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00009	.0	.0	2.6	10.3	23.1	64.1	39
06009	.0	.0	2.9	2.9	25.7	68.6	35
12015	.0	.0	.0	6.1	18.2	75.8	33
18021	.0	.0	.0	7.3	24.4	68.3	41
TOT	0	0	2	10	34	102	148
PCT	.0	.0	1.4	6.8	23.0	68.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET/NH 34/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH 45/8 AND 5+	TOTAL OBS
00009	.0	.0	9.5	28.6	61.9	21
06009	.0	.0	10.5	31.6	57.9	19
12015	.0	.0	5.3	15.8	78.9	19
18021	.0	.0	10.5	21.1	68.4	19
TOT	0	1	7	19	92	78
PCT	.0	1.3	9.0	24.4	66.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	4.1	1.4	1.4	5	6.8
80/84	.0	.0	.0	.0	.0	27.4	49.3	5.5	80	82.2
75/79	.0	.0	.0	.0	.0	.0	5.5	5.5	8	11.0
TOTAL	0	0	0	0	0	23	41	9	73	100.0
PCT	.0	.0	.0	.0	.0	31.5	56.2	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	3.4	.0	.0	.0	.0	.0	1.4	.7	.0	1.4
80/84	1.4	.0	2.7	1.7	2.4	10.6	36.0	20.5	.0	6.8
75/79	.0	.0	.0	.0	1.0	.3	6.2	3.4	.0	.0
TOTAL	4.8	.0	2.7	1.7	3.4	11.0	43.5	24.7	.0	8.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00009	91	90	86	82	77	75	75	82.2	74
06009	88	87	86	82	78	77	77	82.1	50
12015	84	83	83	82	80	77	77	81.8	38
18021	86	85	84	82	80	76	76	81.6	47
TOT	91	88	86	82	78	75	75	82.0	209

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00009	.0	.0	.0	11.1	77.8	11.1	85	18
06009	.0	.0	.0	50.0	38.9	11.1	81	18
12015	.0	.0	.0	38.9	50.0	11.1	82	18
18021	.0	.0	.0	27.3	59.1	13.6	83	22
TOT	0	0	0	24	43	9	83	76

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1871-1972

DECEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 119.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	84 88	TOT	N FOG	NO FOG
5	.0	.0	.0	.9	1	.0	.9
4	.0	.0	.9	.9	2	.0	1.8
2	.0	.0	4.4	1.8	7	.0	6.1
1	.0	.0	1.8	2.6	5	.0	4.4
0	.0	.9	13.2	.0	16	.0	14.0
-1	.0	.0	9.6	.0	11	.0	9.6
-2	.0	3.5	27.2	.0	35	.0	30.7
-3	.0	6.1	5.3	.9	14	.0	12.3
-4	.0	4.4	6.1	.0	12	.0	10.5
-5	.9	.9	3.5	.0	6	.0	5.3
-6	.0	1.8	.9	.0	3	.0	2.5
-7/-8	.0	.0	.9	.0	1	.0	.9
-11/-13	.9	.0	.0	.0	1	.0	.9
TOTAL	2	20	84	8	114	0	114
PCT	1.8	17.5	73.7	7.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

AREA 0014 NORTHEAST JAVA SEA
4.75 113.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	4.9
3-4	.0	1.8	.0	.0	.0	.0	1.8	.0	.6	3.0	.0	.0	.0	3.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.0	.0	.0	.0	1.8	2.4	3.0	3.7	.0	.0	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	4.9	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	2.4
1-2	.0	13.4	2.4	.0	.0	.0	15.9	.0	4.9	.0	.0	.0	.0	.0	4.9
3-4	.0	2.4	15.2	.0	.0	.0	17.7	.0	2.4	3.7	2.4	.0	.0	.0	8.5
5-6	.0	.0	11.0	.0	.0	.0	11.0	.0	.0	3.0	.0	.0	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	2.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.7	28.7	.0	.0	.0	49.4	.0	9.1	6.7	4.9	2.4	.0	23.2	92.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.8	7.0	.0	.0	.0	.0	18.8	
1-2	4.7	25.6	2.3	.0	.0	.0	32.6	
3-4	.0	7.0	20.9	2.3	.0	.0	30.2	
5-6	.0	.0	14.0	.0	.0	.0	14.0	
7	.0	.0	.0	7.3	.0	.0	7.3	
8-9	.0	.0	.0	.0	2.3	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.3	39.5	37.2	4.7	2.3	.0	100.0	43

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.4	26.3	14.7	4.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	3
6-7	.0	.0	2.9	8.8	8.8	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
8-9	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	20.6	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	1
TOTAL	17	18	12	10	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	3
PCT	25.0	26.3	17.6	14.7	11.8	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

ANNUAL

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	8.0	.0	1.6	.0	.0	.0	.0	9.7	9.6	8.3	.0	.0	.0	.0	64.0
NE	.6	.0	.8	.0	.0	.0	.0	1.4	.5	.6	.0	.0	.0	.0	97.3
E	.6	.8	.0	.0	.0	.0	.0	1.4	.4	3.4	.2	.0	.1	.0	94.6
SE	2.2	.2	.1	.0	.0	.0	.0	2.5	2.8	1.6	.3	.0	.2	.0	92.7
S	3.4	1.9	.4	.0	.0	.0	.0	5.7	2.0	1.7	.3	.0	1.0	.0	89.3
SW	2.7	3.2	.0	.0	.0	.0	.0	5.9	4.0	.7	.0	.0	.0	.0	89.4
W	5.5	10.4	.2	.0	.0	.0	.0	16.1	1.6	5.2	2.5	.0	.1	.0	75.5
NW	6.9	5.2	.4	.0	.0	.0	.0	12.5	1.6	8.4	.0	.0	.0	.0	70.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	.0	.0	.0	.0	.0	.0	2.1	.6	4.6	8.3	.0	2.6	.0	56.8
TOT PCT	3.2	1.7	.3	.0	.0	.0	.0	5.2	1.7	3.3	.4	.0	.4	.0	89.2
TOT OBS:	2126														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.9	2.5	.2	.0	.0	.0	.0	6.6	2.5	1.1	.3	.0	.3	.0	89.4
06009	2.9	1.8	.5	.0	.0	.0	.0	5.2	2.9	.4	.5	.0	.1	.0	90.9
12015	1.8	1.1	.2	.0	.0	.0	.0	3.2	1.0	4.9	.2	.0	1.1	.0	89.8
18021	3.8	.9	.4	.0	.0	.0	.0	5.1	.5	7.4	.4	.0	.0	.0	87.0
TOT PCT	3.1	1.7	.3	.0	.0	.0	.0	5.1	1.7	3.4	.4	.0	.4	.0	89.2
TOT OBS:	2158														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	2.5	.3	.0	.0	.0		3.6	5.9	3.6	4.7	4.1	3.1	1.9	3.4	1.7	4.3
NE	1.0	2.8	.4	.0	.0	.0		4.2	8.4	2.7	4.9	3.5	2.9	6.6	2.8	3.9	
E	1.5	11.6	6.6	.1	.0	.0		19.9	7.8	18.1	19.0	18.7	17.8	17.9	23.5	18.9	26.2
SE	1.4	18.9	10.3	.3	.0	.0		30.9	7.7	33.2	33.1	30.2	32.6	32.2	26.8	28.5	27.6
S	.9	4.1	.9	.0	.0	.0		6.0	6.9	6.1	6.2	6.1	6.5	7.7	5.6	4.8	4.7
SW	1.1	3.6	.9	.0	.0	.0		5.6	6.5	6.0	4.1	8.2	7.9	5.5	7.2	5.6	3.6
W	1.4	4.3	4.7	.3	.0	.0		14.7	8.8	12.8	14.0	15.9	16.9	15.9	14.5	18.6	11.7
NW	1.2	5.8	2.2	.2	.0	.0		9.4	7.2	10.0	10.4	10.3	7.5	9.9	5.7	11.9	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	7.5	3.5	3.1	3.5	6.2	6.8	7.2	7.0
TOT OBS								5104		8.3	8.5	9.1	4.7	6.8	6.9	4.8	3.4
TOT PCT	14.8	57.7	24.3	1.0	.0	.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06	12	18	
										00	06	12	18
										09	15	21	
N	2.2	1.3	.1	.0	.0			3.6	5.9	4.3	3.7	2.5	3.5
NE	2.9	1.3	.0	.0	.0			4.2	8.4	3.9	4.0	4.4	4.8
E	5.7	13.1	1.0	.0	.0			19.9	7.8	18.5	18.3	20.2	23.5
SE	7.0	22.3	1.6	.0	.0			30.9	7.7	32.1	31.7	30.0	27.6
S	3.1	2.8	.1	.0	.0			6.0	6.9	6.2	6.1	6.5	4.8
SW	3.2	2.1	.3	.0	.0			5.6	6.5	5.0	7.4	6.2	4.2
W	5.5	7.7	1.5	.1	.0			14.7	8.8	12.5	14.3	15.3	14.5
NW	3.7	5.0	.6	.1	.0			9.4	7.2	10.2	8.9	8.3	9.8
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	5.4	3.4	6.4	7.0
TOT OBS							5104		8.3	1756	1095	1187	1000
TOT PCT	18.6	55.5	5.3	.2	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1708-1973
(OVER-ALL) 1856-1973

ANNUAL

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.4	9.1	35.6	28.7	.9	.0	.0	.0	8.5	100.0	1756
06009	3.4	10.0	35.5	29.6	1.5	.0	.0	.0	8.8	100.0	1095
12015	6.4	10.1	60.0	22.2	1.1	.2	.0	.0	8.0	100.0	1187
18021	7.0	8.0	61.1	23.2	.6	.0	.0	.0	7.9	100.0	1066
TOT									8.3		5104
PCT	5.6	9.2	37.7	26.3	1.0	.	.0			100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	1.2	.8		5.2
NE	.2	.	.9	.4		3.6
E	4.6	5.1	7.3	1.0		4.8
SE	10.5	8.7	11.1	1.6		3.8
S	1.4	1.4	2.2	.6		4.7
SW	.4	1.1	2.5	2.5		5.8
W	1.9	3.0	7.6	5.1		4.7
NW	.6	1.9	4.9	3.4		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	1.1	1.9	.7		3.0
TOT OBS					1018	4.7
TOT PCT	21.6	22.6	39.7	16.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE BY NH <5/8 OF WIND DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.1	.1	.5	.1	.0	.0	.0	.0	1.8	
.0	.0	.0	.2	.1	.1	.	.0	.0	.0	1.2	
.0	.0	.0	.4	1.6	.6	.7	.1	.0	.1	14.5	
.0	.0	.2	.7	3.1	.8	.5	.1	.0	.0	26.5	
.0	.1	.0	.3	.3	.3	.1	.0	.0	.0	4.6	
.0	.	.1	1.0	.7	.6	.1	.	.	.	3.9	
.0	.0	.5	1.3	2.9	.9	.2	.1	.1	.0	11.6	
.0	.1	.2	.7	1.7	.5	.1	.1	.0	.0	7.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.3	.4	.2	.0	.0	.0	4.4	
.0	.2	1.0	5.0	11.2	4.3	1.9	.4	.1	.1	75.9	1018 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.1	.2	.2	.2	.2	.2	.2	.2
>5000	.4	.5	.5	.5	.5	.5	.5	.5
>3500	2.0	2.3	2.4	2.4	2.4	2.4	2.4	2.4
>2000	5.8	6.5	6.7	6.7	6.7	6.7	6.7	6.7
>1000	15.0	17.0	17.8	17.8	17.8	17.8	17.8	17.8
>600	18.9	21.8	22.7	22.7	22.7	22.7	22.7	22.7
>300	19.2	22.8	23.7	23.7	23.7	23.7	23.7	23.7
>150	19.3	23.0	23.9	23.9	23.9	23.9	23.9	23.9
>0	19.3	23.0	23.9	23.9	23.9	23.9	23.9	23.9

TOTAL NUMBER OF OBS: 1030

PCT FREQ NH <5/8: 76.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	6.2	14.9	23.7	18.0	13.0	9.7	5.3	2.8	6.2	.0	1094

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

ANNUAL

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	*	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	TOT %	*	*	.0	.0	.0	.1	.1	.0	.0	.0	.3	
1/2<1	PCP	*	.0	.0	.0	.0	.1	*	.0	.0	.0	.1	
	NO PCP	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.1	
	TOT %	*	.0	*	*	.0	.1	*	.0	.0	.0	.2	
1<2	PCP	.1	*	.0	*	*	.2	*	.0	.0	.0	.4	
	NO PCP	.0	.0	.1	.1	.0	.0	.1	*	.0	*	.3	
	TOT %	.1	*	.1	.1	*	.0	.2	*	.0	*	.7	
2<5	PCP	*	.0	.0	.0	*	.2	.4	.3	.0	.0	1.0	
	NO PCP	*	*	*	.1	.1	.1	.2	*	.0	.1	.7	
	TOT %	.1	*	*	.1	.1	.9	.6	.3	.0	.1	1.7	
5<10	PCP	.1	*	.2	.2	.0	.4	.9	.4	.0	.1	2.3	
	NO PCP	.8	.7	2.8	4.7	.7	1.0	2.3	1.7	.0	.8	15.4	
	TOT %	.9	.7	3.0	4.9	.7	1.4	3.2	2.2	.0	.8	17.7	
10+	PCP	*	.0	.2	.2	.2	*	.4	.3	.0	.1	1.4	
	NO PCP	2.2	2.9	15.8	26.6	4.8	4.1	11.5	6.9	.0	3.2	78.0	
	TOT %	2.2	2.9	16.0	26.8	5.0	4.1	11.9	7.2	.0	3.3	79.4	
TOT OBS													2123
TOT PCT													9.3 3.7 19.2 31.9 5.8 5.4 16.1 9.9 .0 4.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	*	.1	.2	.3	.0	.1	.2	.1	.0		1.0	
	11-21	*	.0	.2	.1	.0	*	.1	*	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.4	.4	.0	.1	.3	.2	.0	.0	1.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	.0	.0	*	.0	*	*	.0	.0		.1	
	11-21	*	.0	*	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.0	*	.1	*	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	.1	*	.2	.2	*	.1	.3	.1	.0		.8	
	11-21	.0	*	*	.0	.0	.0	.1	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.2	*	.0	.2	.1	.0	*	1.0	
2<5	0-3	.0	.1	.1	.0	.0	*	*	.0	.0	.1	.3	
	4-10	.1	.1	.4	.4	.1	.1	.3	.3	.0		1.8	
	11-21	*	*	*	.1	*	.2	.6	.2	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0		.0	
	TOT %	.2	.2	.5	.5	.1	.2	1.0	.5	.0	.1	3.2	
5<10	0-3	.2	.2	.2	.2	.1	*	.1	.1	.0	.6	1.8	
	4-10	.4	.3	1.1	1.9	.3	.7	1.6	1.1	.0		7.3	
	11-21	*	*	.7	.9	.1	.3	.7	.5	.0		3.2	
	22+	.0	.0	.0	.0	.0	*	.1	.0	.0		.1	
	TOT %	.7	.5	2.0	3.0	.4	1.0	2.5	1.7	.0	.6	12.4	
10+	0-3	.5	.7	1.0	1.0	.8	.9	1.0	.9	.0	4.6	11.5	
	4-10	1.9	2.1	10.0	16.9	3.4	2.5	6.6	4.7	.0		48.2	
	11-21	.2	.2	5.7	9.5	.8	.3	3.2	1.6	.0		21.6	
	22+	*	.0	.1	.1	*	*	.1	.2	.0		.7	
	TOT %	2.6	3.0	16.8	27.5	5.1	3.7	11.0	7.5	.0	4.6	81.7	
TOT OBS													3577
TOT PCT													3.6 3.9 20.0 31.6 5.6 5.1 15.0 9.9 .0 5.4 100.0

ANNUAL

PERIOD: (PRIMARY) 1908-1973
(ONLY-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.75 114.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.9	5.6	11.5	6.4	2.5	.0	.0	.0	27.8	72.2	265
06009	.0	.0	.7	4.8	16.7	4.6	1.9	.2	.0	.0	28.9	71.1	293
12015	.0	.6	.4	2.5	7.2	2.2	1.5	.3	.3	.3	15.4	84.6	257
18021	.0	.0	.9	5.2	6.9	3.4	1.6	.8	.0	.0	18.8	81.2	261
TOT PCT	.0	.2	1.0	4.6	10.7	4.1	1.8	.3	.1	.1	22.9	77.1	1076 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	1.6	.2	1.3	3.7	10.6	82.7	1215
06009	1.4	.3	.7	2.5	13.0	82.1	757
12015	1.1	.3	.7	2.8	12.9	82.2	806
18021	1.8	.1	.9	3.5	13.8	80.1	830
TOT PCT	1.5	.2	.9	3.2	12.4	81.8	3808 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.9	9.0	19.4	71.7	260
06009	.0	.7	6.9	23.8	69.4	277
12015	.0	1.1	4.3	11.8	83.9	245
18021	.0	1.0	7.1	12.8	80.1	248
TOT PCT	.0	1.2	7.0	17.0	76.1	1030 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.4	.1	.0	.0	.6	.6
85/89	.0	.0	.0	.0	1.9	7.0	1.5	.5	10.8	10.8
80/84	.0	.0	.0	.1	1.6	36.3	37.2	4.4	79.5	79.5
75/79	.0	.0	.0	.0	.1	1.3	4.9	2.8	9.0	9.0
TOTAL PCT	.0	.0	.0	.2	4.0	44.8	43.5	7.6	1094	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.1	.2	.1	.0	.1	.1	.0	.0
85	.5	.4	4.0	2.5	.3	.4	1.5	.3	.0	.9
80	1.2	1.5	13.8	26.2	4.8	5.1	13.1	9.1	.0	4.7
75	.6	.1	.5	3.0	.4	.6	2.3	1.4	.0	.2
TOTAL	2.3	2.0	18.4	31.9	5.6	6.1	16.9	11.0	.0	5.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	89	86	82	78	76	72	82.2	1740
06009	95	90	87	83	79	76	73	82.9	1079
12015	92	85	84	82	79	77	75	81.6	1187
18021	88	84	83	81	78	76	73	81.2	1064
TOT	95	89	86	82	79	76	72	82.0	5070

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	2.1	39.5	47.6	10.5	81	264		
06009	.0	.3	10.5	36.1	27.7	5.4	77	298		
12015	.0	.0	2.8	45.3	46.4	5.5	80	281		
18021	.0	.0	.0	38.1	52.9	9.0	82	281		
TOT	0	2	47	308	477	40	80	1114		

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

ANNUAL

TABLE 17

AREA 0014 NORTHEAST JAVA SEA
4.7S 114.0E

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	*	2	.0	.1
9/10	.0	.0	.0	.1	.1	.3	.0	9	.0	.5
7/8	.0	.0	.0	.1	.1	.3	.0	9	.0	.5
6	.0	.0	.0	.1	.1	.1	.0	5	.0	.3
5	.0	.0	.0	.3	.6	.4	.0	23	.0	1.2
4	.0	.0	.0	1.3	1.7	.1	.0	59	.0	3.1
3	.0	.0	.0	.2	1.0	.0	.0	23	.0	1.2
2	.0	.0	.2	6.6	2.0	*	.0	167	.0	8.7
1	.0	.0	.3	4.9	1.1	*	.0	123	.1	6.3
0	.0	.0	2.0	21.9	1.2	*	.0	482	.1	25.0
-1	.0	.0	1.5	9.7	1.1	.0	.0	242	.1	12.6
-2	.0	.2	4.6	18.0	.4	.0	.0	446	.1	23.0
-3	.0	.0	2.0	3.1	.1	.0	.0	98	.0	5.3
-4	.0	.3	3.8	3.6	*	.0	.0	149	.0	7.7
-5	.1	.4	1.4	.6	.0	.0	.0	46	.0	2.4
-6	.0	.1	.8	.1	.0	.0	.0	19	.0	1.0
-7/-8	.0	.3	.1	.1	.0	.0	.0	12	.0	.6
-9/-10	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL								1918		
PCT	.1	1.3	17.1	70.7	9.6	1.2	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.1	.0	.0	.0	1.4	*	.1	.1	.0	.0	.0	.3
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.4	.0	.0	.0	2.1	*	.4	.1	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	.3	.2	.0	.0	.0	.0	.4	.2	.6	.0	.0	.0	.0	1.1
1-2	.4	6.3	2.3	.0	.0	.0	9.0	.4	11.6	3.3	.0	.0	.0	19.3
3-4	.0	3.4	5.0	.0	.0	.0	8.4	.0	3.8	6.6	.0	.0	.0	10.5
5-6	.0	.4	3.2	.0	.0	.0	3.6	.0	.8	4.9	.0	.0	.0	5.6
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.2	.0	.0	.1
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.2	10.6	.2	.0	.0	21.7	.7	17.0	15.2	.2	.0	.0	33.1

PERIOD: (OVER-ALL) 1963-1973

ANNUAL
TABLE 18 (CONT)ARCA 0014 NORTHEAST JAVA SEA
4.75 114.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	2.0	1.0	2.4	.0	.0	.0	.0	3.4
3-4	.0	1.0	.6	.0	.0	.0	1.6	.0	.4	1.0	.0	.0	.0	1.4
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.3	.0	.0	.0	4.1	1.0	2.8	1.0	.0	.0	.0	4.9

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.0	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	7.1	1.8	.0	.0	.0	8.9	.1	3.1	.8	.0	.0	.0	4.1	
3-4	.0	1.7	3.8	.0	.0	.0	5.5	.0	1.7	2.2	.2	.0	.0	4.1	
5-6	.0	.1	2.3	.0	.0	.0	2.4	.0	.1	.8	.0	.0	.0	1.0	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	9.7	8.0	.0	.0	.0	17.8	.1	5.4	4.1	.4	.2	.0	10.2	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.8	3.0	.0	.0	.0	.0	9.8	085
1-2	2.0	33.0	9.1	.0	.0	.0	44.1	
3-4	.0	12.3	19.2	.2	.0	.0	31.7	
5-6	.0	1.4	11.2	.0	.0	.0	12.6	
7	.0	.0	.7	.5	.0	.0	1.2	
8-9	.0	.0	.2	.2	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	49.8	40.4	.8	.2	.0	100.0	390

PERIOD: (OVER-ALL) 1952-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	29.5	21.5	9.3	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	628	3
6-7	.3	1.5	5.5	6.2	2.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	4
8-9	.0	.5	.5	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
10-11	.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
12-13	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	7.4	2.4	1.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	1
TOTAL	13.7	34.1	29.3	16.7	9.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	910	3
PCT																				100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1856-1973

AREA 0014 NORTHEAST JAVA SEA
4.75 114.02

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TEMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	CT
96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.1	10	.2
87/88	.7	1.3	1.1	3.5	2.5	.5	.0	.0	.0	.2	1.0	3.3	62	1.3
85/86	6.6	11.0	14.3	26.5	21.1	6.4	2.0	.5	1.5	4.2	24.2	16.4	536	11.1
83/84	32.8	32.8	36.7	44.1	47.5	34.7	13.4	5.4	10.3	30.8	49.4	46.4	1323	31.4
81/82	51.8	40.3	40.7	18.7	25.9	7.7	39.8	54.8	58.1	57.2	22.1	31.1	2113	43.0
79/80	6.4	4.1	5.7	3.5	2.3	8.2	22.9	35.0	26.0	8.6	2.8	1.6	536	11.1
77/78	1.1	.3	.3	.4	.5	2.1	1.8	3.8	2.1	.7	.3	.0	35	1.1
75/76	.4	.0	.0	.4	.2	.2	.2	.3	.0	.2	.0	.0	10	.2
73/74	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	454	390	371	487	440	438	455	423	389	425	393	182	4348	100.0
MEAN	82.3	82.6	82.8	83.7	83.4	82.1	81.3	80.7	81.1	82.1	83.5	83.4	82.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1009	1009	1007	1009	1009	1009	1009	1009	194
FEB	1010	1009	1008	1008	1008	1010	1009	1009	1009	203
MAR	1010	1010	1008	1008	1010	1010	1009	1009	1009	195
APR	1010	1010	1008	1009	1009	1009	1009	1010	1009	212
MAY	1009	1010	1009	1009	1009	1010	1009	1010	1009	180
JUN	1011	1009	1009	1009	1010	1010	1009	1010	1010	186
JUL	1011	1010	1010	1008	1010	1009	1010	1010	1010	199
AUG	1012	1010	1010	1009	1010	1010	1010	1010	1010	174
SEP	1012	1010	1010	1009	1011	1010	1010	1010	1010	167
OCT	1011	1010	1009	1009	1009	1010	1009	1010	1010	220
NOV	1011	1010	1009	1008	1008	1010	1009	1010	1009	199
DEC	1010	1009	1008	1008	1009	1010	1009	1010	1009	170
ANN	1011	1010	1009	1008	1009	1010	1009	1010	1009	1299
OBS	306	346	324	240	320	182	283	292		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1003	1006	1008	1009	1010	1012	1013	1014
FEB	1005	1005	1006	1008	1009	1010	1013	1013	1014
MAR	1004	1004	1006	1008	1009	1011	1012	1013	1014
APR	1005	1005	1006	1008	1009	1010	1014	1014	1015
MAY	1003	1005	1006	1008	1009	1010	1012	1014	1015
JUN	1003	1005	1007	1008	1010	1011	1013	1014	1016
JUL	1005	1005	1007	1009	1010	1011	1012	1014	1016
AUG	1004	1005	1007	1009	1010	1011	1013	1014	1015
SEP	1005	1005	1007	1009	1010	1012	1014	1014	1015
OCT	1005	1005	1007	1008	1009	1011	1013	1013	1014
NOV	1005	1005	1006	1008	1009	1011	1013	1014	1015
DEC	1003	1004	1006	1008	1009	1010	1012	1013	1014

USCOMM-NOAA-ASHEVILLE--140

Volume	Area	Name	Approximate Central Location	Volume	Area	Name	Approximate Central Location
1	1	Southeast Sumatra	04.2°S	4	22	Northwest Celebes Sea	03.8°N
	2	Christmas Island	10.5°S		23	East Celebes Sea	120.2°E
	3	Sunda Strait	05.1°S		24	Northwest Molucca Sea	123.5°E
	4	Northwest Java Sea	04.0°S		25	Southeast Molucca Sea	127.0°E
	5	Bangka Island Northwest	00.8°S		26	Southeast Banda Sea	126.7°E
	6	Natuna Island	03.5°N		27	Timor Northwest	131.0°E
	7	Sarawak	03.8°N		28	North Timor Sea	124.5°E
2	8	West Borneo	00.7°N	5	29	Melville Island	11.2°S
	9	Karimata Strait	02.7°S		30	West Arafura Sea	130.8°E
	10	Southwest Java Sea	05.5°S		31	East Arafura Sea	133.3°E
	11	South Central Java	08.4°S		32	West Torres Strait	136.8°E
	12	Southeast Java	09.7°S		33	East Torres Strait	140.6°E
	13	Southeast Java Sea	06.3°S		34	Gulf of Papua Southeast	143.8°E
	14	Northeast Java Sea	04.4°S				146.8°E
					35	Southeast New Guinea	10.7°S
					36	Northwest Solomon Sea	151.5°E
					37	Admiralty Islands East	148.7°E
					38	New Ireland Northeast	149.0°E
					39	North Solomon Sea	152.6°E
					40	Southeast Solomon Sea	153.5°E
							154.5°E
3	15	Raili Sea	07.8°S	6			
	16	Flores Sea	07.8°S				
	17	Northwest Flores Sea	06.0°S				
	18	South Makassar Strait	04.2°S				
	19	Central Makassar Strait	02.0°S				
	20	North Makassar Strait	00.1°S				
	21	Southwest Celebes Sea	02.2°N				